

ORIGINAL

DOCKET NO. 000824-EI - Review of Florida Power Corporation's earnings, including effects of proposed acquisition of Florida Power Corporation by Carolina Power & Light

WITNESS: Direct Testimony of Andrew L. Maurey, Appearing on Behalf of Staff

DATE FILED: January 28, 2002

AUS _____
CAF _____
CMP _____
COM _____
CTR _____
ECR _____
GCL _____
OPC _____
MMS _____
SEC _____
OTH _____

DOCUMENT NUMBER-DATE

01050 JAN 28 02

FPSC-COMMISSION CLERK

DIRECT TESTIMONY OF ANDREW L. MAUREY

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25

Q. Please state your name, occupation, and business address.

A. My name is Andrew L. Maurey. I am employed by the Florida Public Service Commission (FPSC or Commission) as the Public Utilities Supervisor of the Finance and Tax Section in the Division of Economic Regulation. My business address is 2540 Shumard Oak Boulevard, Tallahassee, Florida, 32399-0850.

Q. Please summarize your educational background.

A. I graduated Magna Cum Laude from Florida State University in 1983 with a Bachelor of Science degree in Finance. I was elected a member of the Beta Gamma Sigma honor society. While with the First National Bank and Trust Company of Naples, I completed course work for and received American Institute of Banking diplomas in Foundations of Banking and Commercial Banking. In 1988, I received a Master of Business Administration degree from Florida State University.

Q. Please summarize your business experience.

A. After receiving my Bachelor's degree in 1983, I accepted a position as a credit analyst and commercial loan representative in the commercial loan department of the First National Bank and Trust Company of Naples. Upon successfully completing the holding company management training program, my responsibilities included performing credit analysis, loan review, and other assigned duties in the commercial loan department.

In 1986, I accepted a position as a regulatory analyst with the Hospital Cost Containment Board. In this position, my duties included

1 analyzing and evaluating financial statements and operating budgets of
2 investor-owned and not-for-profit hospitals for regulatory compliance.

3 Upon receiving my Master's degree in 1988, I accepted a regulatory
4 analyst position with the Florida Public Service Commission. My duties
5 included analyzing financial and economic market information regarding
6 the cost of capital and other finance-related issues.

7 In 1991, I was promoted to Regulatory Analyst Supervisor of the
8 Finance Section. I was promoted to Public Utilities Supervisor of the
9 Finance Section in 1994. As part of the agency reorganization in 2000,
10 I assumed responsibility for the expanded Finance and Tax Section. In
11 my current position, my primary responsibilities are advising the
12 Commission on financial and economic matters regarding utility cost of
13 capital and other finance-related issues.

14 Q. Are you a member of any professional organizations?

15 A. Yes. I am a member of the Society of Utility and Regulatory Financial
16 Analysts (SURFA). I am currently the Vice President of SURFA and will
17 begin a two year term as President of the organization in April 2002.
18 I was awarded the professional designation Certified Rate of Return
19 Analyst (CRRRA) by SURFA in 1992. This designation is awarded based upon
20 education, experience, and the successful completion of a written
21 examination.

22 Q. Have you previously testified before the Commission?

23 A. Yes. I have testified on the appropriate return on equity as well as
24 other cost of capital related issues before this Commission. In
25 addition, as a member of Commission staff, I have participated in a

1 | number of rate case and other regulatory proceedings.

2 | Q. What is the purpose of your testimony in this proceeding?

3 | A. The purpose of my testimony is to present an independent analysis of the
4 | fair and reasonable rate of return on equity for Florida Power
5 | Corporation (FPC or the Company). Based upon this analysis, I have
6 | recommended a rate of return on equity which is fair to ratepayers and
7 | shareholders, allows the Company to attract capital on reasonable terms,
8 | enables the Company to maintain its financial integrity, and is
9 | comparable to returns offered on investments of comparable risk. My
10 | testimony will also address the issue of the reasonable level of equity
11 | capital upon which this recommended ROE should be applied.

12 | Q. Please summarize your ROE and equity ratio recommendation for FPC.

13 | A. My analysis of objective market data and the application of generally
14 | accepted financial models indicates a range of return on equity for FPC
15 | of 9.75% to 12.5%. Based upon my analysis, I recommend a just and
16 | reasonable ROE for FPC of 11.5%.

17 | In addition, I have reviewed FPC's testimony regarding its
18 | requested level of equity, the relative levels of equity maintained at
19 | the consolidated entity and related subsidiaries, and the range of
20 | equity ratios maintained by electric utilities in FPC's peer group.
21 | Based upon this analysis, I recommend FPC's equity ratio be capped at
22 | 55% as a percentage of investor capital for ratemaking purposes.

23 |
24 | REGULATORY FRAMEWORK AND RATE OF RETURN

25 | Q. Please summarize the guiding principles you relied upon in determining

1 a fair and reasonable ROE for FPC.

2 A. I relied upon the principles established by the United States Supreme
3 Court in the Bluefield Water Works and Improvement Company v. Public
4 Service Commission of West Virginia, 262 U.S. 679 (1923), and the
5 Federal Power Commission v. Hope Natural Gas Company 320 U.S. 591
6 (1944), decisions. In the Bluefield decision, the Supreme Court states:

7 A public utility is entitled to such rates as will
8 permit it to earn a return on the value of the
9 property which it employs for the convenience of the
10 public equal to that generally being made at the same
11 time and in the same general part of the country on
12 investments in other business undertakings which are
13 attended by corresponding risks and uncertainties;
14 but it has no constitutional right to profits such as
15 are realized or anticipated in highly profitable
16 enterprises or speculative ventures. The return
17 should be reasonably sufficient to assure confidence
18 in the financial soundness of the utility, and should
19 be adequate, under efficient and economical
20 management, to maintain and support its credit and
21 enable it to raise the money necessary for the proper
22 discharge of its public duties.

23 [Bluefield Water Works and Improvement Company v. Public Service
24 Commission of West Virginia, 262 U.S. 679, 692-693 (1923)]

25 In the Hope decision, the Supreme Court repeats the financial

1 integrity and capital attraction requirements set forth in the Bluefield
2 decision:

3 From the investor or company point of view it is
4 important that there be enough revenue not only for
5 operating expenses but also for the capital costs of
6 the business. These include service on the debt and
7 dividends on the stock. ... By that standard the
8 return to the equity owner should be commensurate
9 with returns on investments in other enterprises
10 having corresponding risks. That return, moreover,
11 should be sufficient to assure confidence in the
12 financial integrity of the enterprise, so as to
13 maintain its credit and to attract capital.

14 [Federal Power Commission v. Hope Natural Gas Company, 320 U.S. 591, 603
15 (1944)]

16 In summary, the Hope and Bluefield decisions require that the
17 allowed ROE approved by the Commission be commensurate with returns on
18 investments of similar risks as well as sufficient to maintain the
19 financial integrity of the company and its ability to attract capital.
20 Based on my understanding of these decisions, a utility should be
21 allowed to recover all costs prudently incurred in the provision of
22 regulated utility service, including an appropriate return on equity.

23 Q. What is the market required rate of return on equity?

24 A. The market required rate of return on equity is the minimum rate of
25 return necessary to attract capital to an investment. The return is a

1 function of price, expected cash flow, and relevant risk. The price of
2 equity capital is dictated by the capital markets through the buying and
3 selling decisions of investors. Expected cash flow for an equity
4 investor are dividends and capital appreciation. Investor return
5 requirements are based on the perception of risk inherent in a
6 particular investment relative to the return available on investments
7 of comparable risk. The greater the risk, the greater the required
8 return and vice versa.

9 Q. What must be considered in estimating a fair and reasonable ROE?

10 A. As discussed earlier, the basic principle is that the allowed ROE for
11 regulatory purposes should be commensurate with returns required on
12 investments of similar risk. In addition, the allowed return should
13 be sufficient to maintain the financial integrity of the company and
14 afford it an opportunity to attract capital on reasonable terms. The
15 comparable returns and capital attraction standards required by the
16 Supreme Court and the assessment of investor return requirements are
17 typically met by the application of generally accepted market-based
18 models such as the Capital Asset Pricing Model (CAPM) and the Discounted
19 Cash Flow (DCF) model. These market-based models are specifically
20 designed to estimate investors' required return on equity investments.

21
22 COST OF EQUITY ESTIMATES

23 Q. How did you arrive at your range of return on equity for FPC?

24 A. I used two generally accepted financial models to determine the investor
25 required ROE for FPC. My first analysis was the application of a DCF

1 model to an index of companies demonstrated to be comparable in risk to
2 FPC. I also conducted a CAPM analysis. Both of these models are
3 widely accepted by the financial community.

4 Q. Why did you use more than one approach to estimate the required ROE for
5 FPC?

6 A. Unlike the cost of debt where the cost rate can be easily determined
7 from a review of the contractual interest payments, the determination
8 of the required return on equity is more subjective. Although there
9 exists general acceptance of certain models, no one methodology is held
10 universally above the others. By using the DCF model, which is more
11 heavily influenced by the stock market, and the CAPM analysis, which is
12 more interest rate sensitive, my analysis incorporates a more robust
13 estimate of investor expectations embodied in the capital markets than
14 relying upon a single methodology.

15 Q. Can the required ROE be measured precisely?

16 A. No. The required return on equity is a function of investor
17 expectations. It is not possible to know all investors' expectations
18 at any point in time. Consequently, professional judgement must be used
19 when applying generally accepted models to capital market proxies for
20 investor expectations. When comparing ROE recommendations from
21 different witnesses, it is very important to understand the rationale
22 underlying the subjective inputs to the models and how well these
23 assumptions reflect reality.

24 Q. Please describe the DCF model.

25 A. The DCF model is the most widely used method of estimating the required

1 return on equity. According to DCF theory, the return on equity is the
2 discount rate (required return) which equates the present value of the
3 expected cash flows associated with a share of stock to the current
4 price of the stock. Assuming a constant growth rate for dividends, this
5 valuation process can be represented by the following formula:

$$6 \quad K_e = D_1/P_0 + g$$

7 where: K_e = investors' required return on equity

8 D_1 = expected dividend

9 P_0 = current price of the stock

10 g = expected growth rate of future dividends

11
12 This version of the DCF model is referred to as the annual DCF model.

13 Q. Is the annual DCF model the only version?

14 A. No. DCF models can be derived to evaluate cash flows of any period.
15 (annual, quarterly, monthly, etc.). The annual version of the model
16 assumes dividends are paid annually at the end of each year. The DCF
17 model actually used should be derived to accurately reflect the timing
18 and amount of expected cash flows. Since most electric utilities pay
19 dividends quarterly, financial theory holds that the investors' required
20 return on equity should be determined using a DCF model which recognizes
21 the quarterly payment of dividends.

22 However, while the quarterly compounded DCF model recognizes the
23 timing of cash flows to investors, the manner in which revenue
24 requirements are typically set by state regulatory commissions does not
25 take into account the fact that the utility receives its payments

1 monthly. Because of this monthly compounding, the utility has the
2 opportunity to earn an actual return above the effective market-based
3 return determined by the quarterly compounded DCF model. Due to the
4 lack of recognition of the utility's receipt of monthly payments in the
5 ratemaking process, some analysts recommend either the use of the
6 annually compounded DCF model or a conversion of the results of the
7 quarterly compounded DCF model from an effective rate of return to a
8 nominal rate of return, particularly in the case when a projected test
9 year is used.

10 Because this is a debate that will not be settled in this
11 proceeding, and for purposes of comparability with the results proffered
12 by other cost of capital witnesses in this case, my analysis looked at
13 the results indicated by both the quarterly compounded and annually
14 compounded versions of the DCF model. The DCF models I have used are
15 shown on Exhibit ALM-1.

16 Q. How did you determine the required return on equity for FPC using the
17 DCF model?

18 A. FPC is a wholly-owned subsidiary of Florida Progress Corporation, which
19 in turn is a wholly-owned subsidiary of Progress Energy, Inc. Because
20 of its corporate structure, FPC's stock is not publicly traded. As a
21 result, a DCF analysis cannot be directly applied to FPC. To determine
22 FPC's required return on equity, it was necessary to apply the DCF model
23 to an index of companies as a proxy for FPC.

24 Q. How did you select the companies to include in your index?

25 A. I used the same index of companies recommended in the testimony of FPC

1 Witness Vander Weide with a couple modifications. My index of
2 comparable companies is shown on Exhibits ALM-2 and ALM-6.

3 Q. How did Witness Vander Weide select his index of comparable companies?

4 A. According to the discussion on pages 24-27 of his direct testimony filed
5 on September 14, 2001, in this docket, Witness Vander Weide started with
6 all the electric companies followed by Value Line which have a Value
7 Line safety ranking of 1, 2, or 3. From this list, he eliminated any
8 companies that had decreased or not paid a quarterly dividend during any
9 quarter of the past 5 years, did not have at least 3 analyst estimates
10 included in its IBES earnings growth forecast, or had announced a
11 merger. This exercise produced an index of 29 companies which he relied
12 upon in his DCF analysis. Witness Vander Weide's index of companies is
13 shown on Exhibit ALM-4.

14 Q. How did you modify Witness Vander Weide's index of companies to arrive
15 at your index of companies?

16 A. I reviewed Witness Vander Weide's index and evaluated it based on the
17 relative percentage of revenue each company generated from electric
18 operations. Based on financial information as of December 31, 2000, as
19 reported by C.A. Turner Utility Reports in its 2001 Financial Statistics
20 of Public Utilities, many of the companies included in Witness Vander
21 Weide's index derived only a fraction of their revenue from the
22 generation, transmission and distribution of electricity. For my index,
23 I only included the companies that generated at least 74% of their
24 revenue from electric operations.

25 Of this group of 15 companies which rely significantly on

1 regulated electric operations for their revenue, I had to remove 3
2 companies due to data limitations. American Electric Power was
3 eliminated because it had a Value Line earnings growth rate of 35%. In
4 addition, a federal appeals court recently overturned the SEC's approval
5 of the merger of AEP and Central and South West Corporation. DQE was
6 eliminated because its Value Line earnings growth rate projection was
7 negative. Finally, Progress Energy was eliminated from the group
8 because it did not have a Value Line earnings growth rate listed in the
9 most recent Value Line edition.

10 Q. Why did you make these modifications?

11 A. The comparable earnings standard of the Hope and Bluefield decisions
12 establishes that a utility is entitled to a return commensurate with
13 that being earned on investments of comparable risk but that it has no
14 right to returns being realized or anticipated in highly profitable
15 businesses or speculative ventures. In this proceeding, the Commission
16 is only concerned with the required return on equity for the provision
17 of regulated electric service. Therefore, to provide a more
18 representative estimate of the true investor required return for this
19 line of business, it was necessary to refine the index to include only
20 those companies whose primary focus is the provision of electric
21 service.

22 Q. Why does this make a difference?

23 A. As noted earlier, investors' required returns vary based on the relative
24 risk of various investments. It is generally recognized by credit
25 rating firms such as Standard & Poor's, Inc. (S&P) and Moody's Investors

1 Service (Moody's) that non-regulated ventures are more risky than the
2 traditional regulated operations of electric utility holding companies.
3 So on average, a holding company that derives 20% of its revenue from
4 regulated utility operations and 80% from non-regulated businesses would
5 be considered more risky than a holding company that generated 80% of
6 its revenues from regulated operations and only 20% from non-regulated
7 businesses. Since the Commission is only interested in the required
8 return associated with the provision of regulated electric service, it
9 stands to reason the most appropriate index to rely on as a proxy for
10 FPC would be an index of companies that rely significantly on revenue
11 generated from regulated operations. While its not possible to comprise
12 a list of companies that relies entirely on regulated electric service
13 for its revenue, it is possible to select a representative index of
14 companies that relies primarily on regulated operations and thereby
15 minimizing the component of required return associated with an element
16 of holding company risk which is not relevant to this proceeding.

17 **Q. Can you quantify this difference?**

18 **A.** Yes. Exhibit ALM-4 shows Witness Vander Weide's index and the derived
19 DCF estimate for each company. The weighted average of the indicated
20 DCF returns for Witness Vander Weide's index is 13.24%. However, when
21 you consider only the companies that generate at least 74% of their
22 revenue from regulated electric operations, the DCF weighted average is
23 12.48%. This is a very simple illustration based solely on the results
24 presented in Witness Vander Weide's testimony and is only intended to
25 demonstrate the importance of selecting an appropriate group of

1 | companies as a proxy for FPC for purposes of this proceeding.

2 | Q. In addition to the appropriate index as a proxy for FPC, what other
3 | assumptions did you make to arrive at the inputs used in your DCF
4 | analysis?

5 | A. Like all DCF analyses, the DCF models I used in my analysis require a
6 | number of inputs. These inputs are the stock price, the expected
7 | dividend, and the expected growth rate in dividends for each company in
8 | the index. For the stock price, I used the simple average of the
9 | monthly high and low stock price for each company for the three month
10 | period ended November 30, 2001. I relied on the S&P Stock Guide for
11 | these stock prices. I used the expected dividend for each company as
12 | reported by Value Line. Value Line is a source of financial information
13 | that is widely available and relied upon by investors. I also relied
14 | upon Value Line for the growth rate component used in the model. The
15 | specific Value Line editions I relied upon are cited in the footnotes
16 | on Exhibit ALM-1.

17 | Q. Did you incorporate an allowance for flotation costs in your DCF
18 | analysis?

19 | A. Yes. For purposes of my analysis, I have accepted the 5% flotation cost
20 | adjustment as recommended by Witness Vander Weide. The DCF calculations
21 | I performed include an adjustment of 5% to recognize the expenses
22 | associated with the issuance of common stock. An allowance for
23 | flotation costs allows the utility to recover costs such as registration
24 | fees, legal and underwriter fees, and other expenses generally incurred
25 | as a result of issuing common stock. Without a flotation cost

1 adjustment, the utility would not be able to earn its required rate of
2 return because the net proceeds it receives are less than the sales
3 price due to issuance costs. A 5% flotation cost adjustment represents
4 approximately 26 basis points.

5 Q. Please summarize the results of your DCF analysis.

6 A. I applied both the quarterly and annual versions of the DCF model to an
7 index of companies demonstrated to be comparable in risk with FPC. The
8 annual version of the DCF model produced a return of 11.53%. The
9 quarterly compounded DCF model produced a return of 11.74%. Exhibit
10 ALM-2 summarizes these results.

11 Q. Please describe the Capital Asset Pricing Model.

12 A. As noted earlier, a fundamental principle of the Hope and Bluefield
13 decisions is that the return to an equity investor should be
14 commensurate with the return expected on investments of comparable risk.
15 The CAPM analysis is a generally accepted means of estimating investors'
16 required return as it relates to the returns available on investments
17 of similar risk.

18 The CAPM analysis is based on two basic assumptions. The first
19 assumption is that investors are risk averse. Investors require a
20 higher return on investments of greater risk than they do on investments
21 considered less risky and vice versa. The second assumption is that
22 investors are only compensated for systematic or general market risk
23 that cannot be eliminated through holding a well diversified portfolio
24 of investments. The generally accepted measure of systematic risk is
25 the company's beta.

1 The CAPM analysis is a risk premium analysis. The indicated
2 return from applying the CAPM analysis is derived by adding a risk
3 premium to the risk-free market rate of return. Three inputs are
4 required to perform a CAPM analysis. These inputs are the risk-free
5 rate, the market return, and beta.

6 Q. Please explain how you selected the inputs you used in your CAPM
7 analysis.

8 A. For the risk-free rate, I used the forecasted yields on 30-year Treasury
9 bonds as reported in the December 1, 2001, edition of Blue Chip
10 Financial Forecasts. The average yield of the consensus forecasts for
11 the first quarter of 2002 through the first quarter of 2003 is 5.4%.

12 For the market return, I performed a DCF analysis on the companies
13 included in the ValueScreen data base. For purposes of this DCF
14 analysis, I eliminated the companies that did not pay dividends or had
15 dividend or earnings growth rates less than zero or greater than 20%.
16 The stock prices are the average stock prices for November 2001. All
17 inputs were obtained from the December 2001 ValueScreen data base. The
18 resulting DCF return is 12.71%. To this amount I added 21 basis points
19 to recognize the quarterly compounding of dividends. The explicit
20 recognition of quarterly compounding of dividends is necessary in this
21 analysis because the companies in the market index do not necessarily
22 receive regular monthly payments as do utilities. The resulting market
23 return is 12.92%.

24 For the beta input, I used the average beta for the companies in
25 my index. The average Value Line beta for my index of comparable

1 | companies is .53. Finally, I also made an additional adjustment of 26
2 | basis points to allow for the recovery of flotation costs.

3 | Q. What is the required return indicated by your CAPM analysis?

4 | A. The required return indicated by my CAPM analysis is 9.72%. Exhibit
5 | ALM-3 shows the formula, inputs, and result of my CAPM analysis.

6 | Q. Please summarize your cost of equity results.

7 | A. As the result of my analysis of objective market data and the
8 | application of generally accepted financial models as well as
9 | consideration of the adjusted returns indicated by FPC Witness Vander
10 | Weide's analysis, I have determined a range of return on equity for FPC
11 | of 9.75% to 12.5%. Based upon this analysis, I recommend a just and
12 | reasonable ROE for FPC of 11.5%.

13 | Q. Have you seen any information which supports the reasonableness of your
14 | recommended rate of return?

15 | A. Yes. In a February 24, 2000, report prepared by Salomon Smith Barney
16 | (SSB) for the Board of Directors of Florida Progress Corporation, SSB
17 | estimated an average cost of equity of 9.0% for a group of companies
18 | comparable to Florida Progress. (See response to Staff POD Request No.
19 | 11, Salomon Smith Barney report, pp. 36 and 41) To estimate the cost
20 | of equity, SSB used a CAPM approach similar to the CAPM analysis I used
21 | in my testimony. Although this is not the return I'm recommending the
22 | Commission adopt for FPC in this proceeding, SSB's indicated cost of
23 | equity estimate is more in line with my recommended return of 11.5% than
24 | it is to the 13.2% return recommended by FPC Witness Vander Weide.
25 |

REBUTTAL OF FPC WITNESS VANDER WEIDE

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25

Q. Have you reviewed FPC Witness Vander Weide's testimony filed in this proceeding?

A. Yes.

Q. Do you agree with his recommendation?

A. No.

Q. Why?

A. I believe 13.2% overstates the required return on equity for FPC for the provision of regulated electric service in Florida.

Q. Please explain.

A. Because many of the companies included in the index Witness Vander Weide used in his DCF analysis derive only a fraction of their revenue from electric operations, the results of this analysis reflect the required return of companies with significant non-regulated investments. It is generally accepted that the return set in this proceeding should only reflect the required return for the provision of regulated electric operations in Florida. As shown on Exhibit ALM-4, if the results of Witness Vander Weide's DCF analysis are adjusted to eliminate the companies that rely on regulated electric operations for less than 74% of their revenues, his weighted average DCF return drops from 13.24% to 12.48%.

Q. Why is this an important consideration?

A. The reliability of any DCF result is only as good as the reliability of the inputs. For the DCF model to accurately estimate investor return requirements, it must accurately reflect investor expectations. If the

1 growth rate used in the DCF model is lower than the growth rate
2 investors expect, the indicated result will understate investors' true
3 required return. Conversely, if the growth rate used in the model is
4 greater than the growth rate investors' expect, the indicated return
5 will overstate the true investor required return. To the extent Witness
6 Vander Weide's DCF result is significantly weighted by growth rates
7 associated with high-growth, high-risk non-utility investments, the
8 indicated return overstates the required return for the provision of
9 regulated electric service.

10 Q. Do you disagree with any other aspects of his analysis?

11 A. Yes. Witness Vander Weide's overall recommendation is significantly
12 influenced by the result of his ex post risk premium analysis of 13.9%.
13 However, its generally recognized that the ex post risk premium approach
14 is unreliable for purposes of estimating future expected returns.

15 The results of an ex post approach are extremely sensitive to the
16 period selected for measuring the risk premium. In fact, over many
17 periods this type of analysis would indicate a negative risk premium.
18 A negative risk premium would mean that investors would require a higher
19 return on debt securities than on equity which is contrary to both
20 financial theory and common sense. Schedule 5 attached to Witness
21 Vander Weide's testimony shows that 24 of the 64 annual risk premium
22 calculations relied upon in his ex post risk premium analysis are in
23 fact negative.

24 Q. Have the limitations of the ex post risk premium analysis been
25 documented in the academic literature?

1 A. Yes. Eugene Brigham and Louis Gapenski state that:
2 The ex post approach to risk premiums used by Ibbotson
3 Associates assumes that investors expect future results, on
4 average, to equal past results. However, as we noted, the
5 estimated risk premium varies greatly depending on the
6 period selected, and, in any event, investors today probably
7 expect results in the future to be different from those
8 achieved during the Great Depression of the 1930s, during
9 the World War II years of the 1940s, and during the peaceful
10 boom years of the 1950s, all of which are included (and
11 given equal weight with more recent results) in the Ibbotson
12 Associates data. The questionable assumption that future
13 expectations are equal to past realizations, together with
14 the sometimes nonsensical results obtained in historical
15 risk premium studies, has led to a search for ex ante risk
16 premiums. (Emphasis added)

17 [Brigham, Eugene and Louis Gapenski, Financial Management Theory and
18 Practice, Seventh Edition, The Dryden Press, Orlando, Florida, 1994, p.
19 345]

20 The availability and general acceptance of the DCF model and ex
21 ante risk premium approaches make the use of the significantly less
22 reliable ex post risk premium analysis unnecessary.

23 Q. Do you have any concerns regarding Witness Vander Weide's ex ante risk
24 premium analysis?

25 A. Yes. As part of Witness Vander Weide's ex ante risk premium analysis,

1 he conducts a DCF analysis on an index of natural gas companies. As
2 with the index of electric companies he selected, his index of natural
3 gas companies includes companies that do not rely on regulated natural
4 gas operations for a significant percentage of their revenues. When the
5 results of his analysis are adjusted to remove the required return
6 element associated with the 2 companies which depend on regulated gas
7 operations for less than 60% of their revenues, his analysis produces
8 a weighted average DCF result for natural gas distribution companies of
9 11.43%. Exhibit ALM-5 shows Witness Vander Weide's index and the
10 resulting weighted average DCF results with and without companies that
11 don't rely significantly on regulated gas operations for their revenue.
12 If the DCF component in his analysis overstates the required return for
13 natural gas distribution companies by nearly 200 basis points, it
14 follows that his ex ante risk premium analysis and resulting ROE
15 estimates based on these DCF results will overstate the true investors'
16 required return of companies whose primary business is regulated natural
17 gas distribution operations by a similar amount.

18 Q. Please summarize your conclusions regarding Witness Vander Weide's ROE
19 testimony in this proceeding.

20 A. Because the returns indicated by his DCF and ex ante risk premium
21 approaches overstate the required return for companies in the business
22 of providing regulated electric service and because the result of his
23 ex post risk premium approach based on earned returns is unreliable for
24 estimating future required returns, Witness Vander Weide's recommended
25 ROE of 13.2% overstates the required return of FPC for the purposes of

1 this proceeding.

2
3 APPROPRIATE EQUITY RATIO

4 Q. Have you reviewed the equity ratio proposed by FPC for purposes of
5 setting rates in this proceeding?

6 A. Yes.

7 Q. Should FPC's equity ratio be adjusted for ratemaking purposes?

8 A. Yes.

9 Q. Has this Commission previously adjusted the equity ratio of other
10 companies for ratemaking purposes?

11 A. Yes. In addition to several examples involving water and natural gas
12 companies, the Commission has adjusted the equity ratio for ratemaking
13 purposes of at least two companies with rated debt.

14 In Order No. PSC-92-0708-FOF-TL, issued July 24, 1992, in Docket
15 No. 910980-TL, involving United Telephone Company of Florida, the
16 Commission adjusted United Telephone's equity ratio to 57.5% for
17 purposes of setting rates. In Order No. PSC-98-0802-FOF-EI, issued June
18 9, 1998, in Docket No. 950379-EI, involving Tampa Electric Company, the
19 Commission capped TECO's equity ratio at 58.7% for the purpose of
20 calculating earnings as part of the company's earnings sharing plan.

21 Q. Why do you believe the Commission should adjust FPC's equity ratio for
22 ratemaking purposes in this proceeding?

23 A. The cost of capital is no different than any other cost the company may
24 incur in carrying out its operations. As with any other expense, it is
25 important that ratepayers are only charged for reasonable and prudent

1 costs associated with the provision of utility services. To the extent
2 that FPC's amount of equity exceeds a reasonable level necessary to
3 maintain its financial integrity and ensure its ability to attract
4 capital under reasonable terms, unless an adjustment is made FPC
5 ratepayers will be charged a cost of capital in excess of what is
6 necessary for the provision of electric service.

7 **Q. Why do you believe FPC's equity ratio is excessive?**

8 A. There are several factors which demonstrate that FPC's proposed equity
9 ratio for the projected 2002 test year of 61.2% is excessive. First,
10 FPC's equity ratio is significantly greater than the average equity
11 ratio for its peer group of 47.0%. In addition, FPC's projected equity
12 ratio is well above the 51% implied risk-adjusted equity ratio target
13 for an electric utility with a BBB+ bond rating. Finally, FPC's
14 projected equity ratio is considerably greater than the 38.0% equity
15 ratio maintained at the consolidated level. Each of these findings are
16 significant on their own, but taken together they constitute a very
17 strong case for adjusting FPC's equity ratio for ratemaking purposes to
18 ensure that ratepayers are not subsidizing the consolidated company's
19 non-regulated operations through the utility's cost of capital.

20 **Q. Please explain how cross-subsidization can occur through the cost of
21 capital.**

22 A. Generally, when attempting to prevent cross-subsidization between a
23 utility and non-utility affiliates, regulators tend to focus on costs
24 such as the allocation of common plant and shared expenses or through
25 affiliate transactions. However, significant cross-subsidization

1 | between utility and non-utility affiliates can occur through the cost
2 | of capital if the utility is allowed to charge rates based on an
3 | excessive level of equity.

4 | Q. Why is equity more expensive than debt?

5 | A. Debt holders, through contractual arrangements, have a fixed claim on
6 | a business's assets and income. In the event of financial problems,
7 | debt holders must be paid before equity holders. Since equity holders
8 | have only a residual claim to a business's assets and income, equity
9 | investments are considered more risky than debt investments in the same
10 | business. For this reason, the cost of equity exceeds the cost of debt.

11 | In addition to the difference in cost rates due to risk, equity
12 | is also more expensive than debt due to tax considerations. Interest
13 | payments on debt are tax deductible. For this reason, the cost of debt
14 | is the same on a pre-tax or after-tax basis. However, because there is
15 | no tax deduction associated with equity, the cost of equity is higher
16 | on a pre-tax basis than on an after-tax basis. For example, while a
17 | 7.0% cost rate on debt remains the same, an 11.5% after-tax ROE equates
18 | to a pre-tax ROE of 18.7%. The higher pre-tax cost of capital is what
19 | is used in setting rates charged to customers.

20 | Q. Please explain how this relates to cross-subsidization through the cost
21 | of capital.

22 | A. Bond rating agencies look at holding companies on a consolidated basis.
23 | While all subsidiaries are not necessarily financed in the same manner,
24 | the holding companies attempt to maintain financial profiles on a
25 | consolidated basis which meet the expectations of rating agencies.

1 | Where the problem arises for regulators is when holding companies
2 | attempt to load higher cost equity at the utility level and maintain
3 | more of the lower cost debt at the other subsidiaries. For example, if
4 | a holding company is allowed to maintain an equity level at the utility
5 | which is in excess of what is necessary for the provision of utility
6 | service, and is permitted to charge rates based on this level of equity,
7 | while at the same time its non-utility affiliate is financing its more
8 | risky non-regulated operations with a significantly higher percentage
9 | of lower cost debt, by definition the ratepayers of the utility are
10 | subsidizing the stockholders of the holding company through the cost of
11 | capital.

12 | **Q. Are you saying this is what is occurring at FPC?**

13 | **A.** The anecdotal evidence appears obvious. According to the Company's 10
14 | K report filed with the Securities and Exchange Commission (SEC), for
15 | the period ended December 31, 2000, FPC represented approximately 76%
16 | of the assets of Florida Progress. Since these assets were capitalized
17 | at an equity ratio of approximately 53.5%, the remaining 24% of Florida
18 | Progress' assets were capitalized at a significantly lower equity ratio
19 | to produce the approximate 40.1% equity ratio maintained by Florida
20 | Progress on a consolidated basis. According to the Company's response
21 | to Staff Interrogatory No. 160 for the period ended September 30, 2001,
22 | while the utility was capitalized with an equity ratio of 55.3%, the
23 | remainder of Florida Progress was capitalized with an equity ratio of
24 | 9.8%. While these two equity ratios are not directly comparable, the
25 | magnitude of the difference is readily apparent.

1 For purposes of setting rates in this proceeding, FPC is proposing
2 an even wider disparity between the equity ratio at the utility level
3 of 61.2% and the ratio maintained by Progress Energy on a consolidated
4 basis. For the period ended September 30, 2001, Progress Energy had an
5 equity ratio of 38.0% on a consolidated basis. In fact, the use of
6 leverage at the holding company level is cited in Progress Energy's 2000
7 SEC 10 K report as the primary reason that the credit rating of FPC was
8 downgraded in the fall of 2000 by S&P and Moody's. To prevent cross-
9 subsidization through the cost of capital on a going-forward basis, I
10 recommend the Commission adjust FPC's equity ratio for ratemaking
11 purposes to a level more commensurate with the level of equity
12 maintained by other electric utilities in its peer group.

13 Q. Has S&P commented on the amount of debt leverage used to finance non-
14 regulated operations?

15 A. Yes. In a S&P report prepared for purposes of evaluating the ratings
16 impact of the merger, it was noted,

17 Florida Progress' credit quality is supported by solid cash
18 flow from its utility subsidiary, Florida Power, partly
19 offset by a weaker financial profile for its non-regulated
20 subsidiary, Electric Fuels Corp. ... The risk profile of
21 these units is greater than the traditional regulated
22 utility business, requiring greater cash flow commensurate
23 with the higher risk. ... Also, the uncharacteristically
24 high amount of debt used to finance non-regulated activities
25 adversely affects the consolidated entity's financial

1 profile. (Emphasis added)

2 [Staff POD Request No. 12, S&P Report for CP&L Energy, 9/13/00, p. 8]

3 Q. Please discuss the level of equity maintained by the electric utilities
4 in FPC's peer group.

5 A. As I discussed earlier in my testimony, it is necessary to apply the
6 market based models at the holding company level because this is the
7 level at which market information is available. However, for a
8 comparison of equity ratios of companies in FPC's peer group, it was
9 necessary to review the level of equity maintained at the utility level.
10 Exhibit ALM-7 shows the relative level of capitalization for each of the
11 utilities in FPC's peer group. This list consists of all the electric
12 utilities owned and operated by the holding companies in Witness Vander
13 Weide's index and for which balance sheet information was available.
14 In order to have comparable information, each utility on the list had
15 to have a SEC 10 K report for the period ended December 31, 2000, and
16 be included in the year-end 2000 S&P Balance Sheet Statistics for
17 Electric Utilities data base. As this schedule shows, the 61.2% equity
18 ratio FPC is proposing in this proceeding is above the top of the range
19 and significantly above the average for this group of single A (A) and
20 triple B (BBB) rated electric utilities.

21 Q. How does FPC's proposed equity ratio compare with the level of equity
22 maintained by Progress Energy on a consolidated basis?

23 A. Exhibit ALM-8 shows the equity ratios of FPC, CP&L, and Progress Energy
24 on a consolidated basis as of September 30, 2001, as reported in the SEC
25 10 Q report. FPC's equity ratio of 55.3% is well above the equity ratio

1 of its sister electric utility CP&L of 45.5% and is significantly higher
2 than the 38.0% maintained by Progress Energy on a consolidated basis.

3 Q. What equity ratio do you recommend the Commission allow FPC for
4 ratemaking purposes?

5 A. I recommend the Commission use an equity ratio of 55% as a percentage
6 of investor capital for ratemaking purposes.

7 Q. Isn't the determination of an appropriate equity ratio a subjective
8 decision?

9 A. Yes. The determination of the appropriate level of equity maintained
10 by any company is a somewhat subjective process. However, the amount
11 of equity maintained at the utility level should be based on an optimal
12 capital structure which minimizes the cost of capital for the provision
13 of regulated service, not at a level designed to offset the excessive
14 use of debt leverage at other subsidiaries of the parent company. Based
15 on my analysis, a fair and reasonable equity ratio for both shareholders
16 and ratepayers is 55%.

17 Q. Why do you believe a 55% equity ratio is fair and reasonable for both
18 shareholders and ratepayers?

19 A. There are several reasons why a 55% equity ratio is fair and reasonable
20 for both shareholders and ratepayers. First, the Company itself
21 recognizes a 55% equity ratio as fair and reasonable. According to the
22 information on MFR Schedule D-10b regarding financing plan assumptions
23 and the evaluation of capital structure efficiency, FPC cites a capital
24 structure objective for common equity of greater than 50% as a
25 percentage of investor capital. In addition, as reported in its 10 Q

1 report filed with the SEC for the period ended September 30, 2001, FPC's
2 actual equity ratio is 55.3%.

3 Second, a 55% equity ratio is significantly higher than the
4 relative level of equity maintained by its sister utility and by the
5 parent company on a consolidated basis. If equity ratios of 45.5% for
6 CP&L and 38.0% on a consolidated basis provide adequate bondholder
7 protection and access to the capital markets under favorable terms for
8 these entities, then a 55% equity ratio more than ensures the same for
9 FPC.

10 Third, a 55% equity ratio is significantly higher than the average
11 equity ratio of 47.0% maintained by the electric utilities in FPC's peer
12 group. At 55%, FPC's equity ratio will still remain near the top of the
13 range of companies in its peer group.

14 Finally, a 55% equity ratio compares favorably to the S&P
15 financial benchmarks for A- and BBB+ rated electric utilities. Exhibit
16 ALM-9 shows the S&P implied equity ratio targets for A- and BBB+ rated
17 electric utilities. As this exhibit shows, a 55% equity ratio is at the
18 top of the target range for an A rated company while this level of
19 equity is well above the target range for a BBB rated company. FPC is
20 rated BBB+ by S&P.

21 Q. Please discuss your understanding of how S&P assigns corporate credit
22 ratings for utility holding companies and their respective operating
23 companies (electric utilities).

24 A. As I noted earlier, S&P assigns a corporate credit rating based on the
25 risk of default of the consolidated entity. In the absence of

1 structural or proscriptive measures to insulate the individual business
2 units, all subsidiaries are assigned the same corporate credit rating
3 as the holding company. Prior to the merger, FPC had a S&P rating of
4 double A minus (AA-). In anticipation of the imminent completion of the
5 merger, S&P downgraded FPC's rating to BBB+ on November 20, 2000.

6 Q. What does a credit rating downgrade mean?

7 A. Generally speaking, a credit rating downgrade means the borrower has
8 reduced financial flexibility and will have to pay a higher return to
9 attract capital than it would have at a stronger credit rating.

10 Q. Is that the case with FPC?

11 A. It's not clear at this point. Despite the credit rating downgrade, FPC
12 Witness Myers testifies that the merger will increase the Company's
13 ability to attract capital and lower its overall cost of capital. While
14 in theory a BBB+ utility will usually pay more to borrow money than a
15 AA- utility, it remains to be seen if the market will in fact agree with
16 Witness Myers' view of FPC and downplay the significance of the
17 Company's credit rating downgrade.

18 Q. What is the revenue requirement impact of your equity ratio adjustment?

19 A. As shown on Exhibit ALM-10, the incremental difference in revenue
20 requirement at the 61.2% equity ratio the Company is proposing be used
21 for ratemaking purposes compared with the indicated revenue requirement
22 at FPC's actual equity ratio of 55% I recommend the Commission recognize
23 in this proceeding is approximately \$23.5 million per year.

24 Q. Is there any other reason why you believe FPC's 61.2% equity ratio is
25 unreasonable?

1 A. Yes. FPC's proposed 61.2% equity ratio results in an overall cost of
2 capital which is excessive. Because equity is the most expensive source
3 of capital to a company, it is important that companies maintain a level
4 of equity which minimizes its overall cost of capital. To the extent
5 a utility company maintains a level of equity in excess of what is
6 required for the provision of regulated operations, it is passing on a
7 cost to its ratepayers which is excessive.

8 Q. Can this excessive cost be demonstrated?

9 A. Yes. Exhibit ALM-11 shows a comparison of Gulf Power Company (Gulf) and
10 FPC's requested capital structures in their respective rate cases. For
11 purposes of comparison, I have used the 11.5% ROE I recommended earlier
12 in my testimony for both companies. As this exhibit shows, FPC's
13 overall cost of capital is 183 basis points higher on a pre-tax basis
14 than Gulf's cost of capital at the same ROE. Even after making the
15 equity ratio adjustment I've recommended, FPC's overall cost of capital
16 is still 119 basis points higher on a pre-tax basis than Gulf's cost of
17 capital. There has been no demonstration made by FPC to explain why its
18 cost of capital should be so much greater than Gulf's cost of capital.
19 Or more specifically, there is no logical reason why FPC ratepayers
20 should be charged a significantly higher cost of capital for the
21 provision of regulated electric service than the cost of capital being
22 charged Gulf ratepayers.

23 Q. Does your equity ratio recommendation take into account the risk
24 adjustment S&P makes for off-balance sheet obligations?

25 A. To the extent recognition of S&P's adjustment to the capitalization

1 ratios of electric utilities for off-balance sheet (OBS) obligations is
2 necessary, yes it does.

3 Q. Please explain how S&P incorporates OBS obligations into its analysis
4 of electric utility capitalization ratios.

5 A. The primary OBS obligations for electric utilities are purchased power
6 contracts. Because the benefits and risks of purchased power contracts
7 depend on a range of factors, S&P conducts both a qualitative and
8 quantitative analysis of these contracts for purposes of assessing the
9 level of debt protection measures available to bond holders.

10 The qualitative analysis focuses on the nature of the contracts.
11 These features include whether the contract is a take-or-pay obligation
12 or a take-and-pay obligation; whether the power is economical and
13 needed; whether there are performance standards; how much discretion the
14 utility has over maintenance and dispatch; whether the contract was
15 preapproved by regulators; and whether there is a recovery clause for
16 capacity and fuel payments. An assessment of these factors results in
17 the assignment of a risk factor which is later used in the quantitative
18 analysis.

19 In the quantitative analysis, S&P calculates the present value of
20 future capacity payments discounted at 10%. The 10% is used as a proxy
21 for the utilities weighted average cost of capital. S&P then multiplies
22 the present value amount by the risk factor determined in the
23 qualitative analysis to estimate the OBS obligation. The risk factor
24 for take-and-pay contracts generally ranges from 10% to 40%. Take-and-
25 pay contracts are the primary form of purchased power contracts employed

1 | by FPC.

2 | The estimated OBS obligation is added to the balance sheet as
3 | additional debt and an interest component is added to the income
4 | statement. Coverage and debt-to-capital ratios are then adjusted to
5 | reflect the additional debt and benchmark comparisons for the credit
6 | rating are made using the adjusted ratios.

7 | Q. Does S&P require regulators to recognize its adjusted ratios for
8 | ratemaking purposes?

9 | A. No, it does not. S&P does not take official positions in regulatory
10 | proceedings or make recommendations on how state regulatory commissions
11 | should interpret or respond to its rating pronouncements.

12 | It is important to recognize that S&P's constituents are bond
13 | holders. While at times the interests of bond holders, shareholders,
14 | and utility ratepayers are in line, there are times when they are not.
15 | S&P does not judge what companies or the state regulatory commissions
16 | do. S&P simply analyzes what has occurred along with a prospective view
17 | of what it expects to occur and renders a decision regarding how these
18 | actions impact the consolidated entity's financial measures in terms of
19 | bond holder protection.

20 | Q. How does your recommended equity ratio account for S&P's assessment of
21 | FPC's OBS obligations?

22 | A. Exhibit ALM-7 shows the equity ratios for FPC's peer group on an actual
23 | and on a S&P adjusted basis. FPC's actual equity ratio for the period
24 | ended December 31, 2000, of 53.5% equates to an adjusted equity ratio
25 | of 47.6%. As page 2 of this exhibit shows, FPC's actual equity ratio

1 is in the upper quartile and its adjusted equity ratio is at the top of
2 the upper middle quartile of its peer group. Based on financial
3 information as of September 30, 2001, FPC's actual equity ratio of 55.3%
4 equates to an adjusted equity ratio of 49.1%. An adjusted equity ratio
5 of 49.1% would place FPC in the upper quartile of its peer group. This
6 demonstrates that my recommendation to hold FPC to its actual equity
7 ratio for ratemaking purposes will not put the Company at a disadvantage
8 relative to other electric utilities in its peer group.

9 In addition to being comparable with other electric utilities, an
10 adjusted equity ratio of 49.1% is in line with the range of implied
11 equity ratio targets for BBB rated utilities with an above average
12 business position as shown on Exhibit ALM-9. S&P assigns FPC an above
13 average business position along with its BBB+ credit rating.

14 Q. Does FPC have control over the amount of purchased power contracts it
15 holds?

16 A. Definitely. FPC has complete control over any new purchased power
17 contracts it may choose to enter into. Since 1996, this Commission has
18 approved FPC's efforts to reduce more than 25% of its purchased power
19 commitments to Qualifying Facilities (QFs) through buy-downs and buy-
20 outs of these contracts. In addition, FPC has the option, with a three
21 year notice, to reduce the amount of purchased power it annually buys
22 from the Southern Company from 400 MW to 200 MW.

23 My point is that not only is this element of financial risk
24 compensated for within the equity ratio I have recommended, this is a
25 risk factor the company can continue to mitigate on a going-forward

1 basis.

2 Q. How does S&P characterize the Florida Commission's regulation with
3 respect to the issue of purchased power contracts?

4 A. S&P views the Commission's regulation of electric utilities in Florida
5 as supportive. S&P recognizes that the Commission allows full recovery
6 of capacity payments associated with these contracts through the
7 capacity cost recovery clause as well as full recovery of energy
8 payments through the fuel cost recovery clause. In addition, S&P
9 specifically acknowledges the Commission's approval of the recovery of
10 buy-out costs associated with the termination of select purchased power
11 contracts as supportive regulation.

12 Q. If the Commission makes the equity ratio adjustment you've recommended,
13 will FPC's corporate credit rating be downgraded?

14 A. No, I don't believe so. As I mentioned earlier, S&P looks at the
15 company's financial position on a consolidated basis. When S&P
16 downgraded FPC from AA- to BBB+ in the fall of 2000, it recognized that
17 the consolidated entity would have debt leverage above 60%, or in other
18 words, an equity ratio less than 40%. Relative to this level, a 55%
19 equity ratio for ratemaking purposes remains very conservative. This
20 is particularly true when it recognized that CP&L maintains an equity
21 ratio of 45%. Moreover, if the company is concerned about S&P's
22 assessment of its leverage, it can easily increase the amount of equity
23 supporting its more risky non-regulated operations. In fact, S&P
24 expects the parent company to improve its credit protection measures on
25 a consolidated basis to compensate for the higher risk associated with

1 its expanding investment in non-regulated operations and to reduce the
2 significant level of debt leverage incurred as a result of the
3 acquisition of Florida Progress.

4 The important point to take from this discussion is that the level
5 of equity allowed for ratemaking should be in line with the risk
6 associated with the provision of regulated operations. There is no S&P
7 mandate that Florida or any other state regulatory commission allow an
8 excessive equity ratio at the utility level to compensate for the parent
9 company's use of excessive leverage to finance other businesses owned
10 by the holding company.

11 Q. In addition to the comments in the S&P report you cited earlier, is
12 there any other support you have for believing Progress Energy is
13 proposing an excessive equity ratio to support the use of greater debt
14 leverage to finance its non-regulated businesses?

15 A. In addition to the comments by S&P cited earlier, another reason I
16 believe FPC's proposed equity ratio for utility operations is
17 compensating for the parent company's use of greater debt leverage to
18 finance its non-regulated businesses can be found on Exhibit ALM-12.
19 This exhibit shows a comparison of the equity capitalization of the
20 Southern Company to Progress Energy and of Gulf to FPC. As this exhibit
21 shows, while the Southern Company maintains an equity ratio on a
22 consolidated basis which is comparable with the ratio maintained by
23 Progress Energy, FPC's proposed equity ratio for ratemaking purposes of
24 61.2% is significantly greater than the 47.0% equity ratio proposed by
25 Gulf in its ratecase. I believe this comparison illustrates that

1 Progress Energy is proposing an excessive amount of equity at the
2 utility level to compensate for the use of significantly more debt
3 leverage to finance its non-regulated operations. For this reason,
4 along with the fact that its sister utility maintains an equity ratio
5 considerably lower than what is being proposed for FPC, unless an equity
6 ratio adjustment is made, FPC ratepayers will be subsidizing the non-
7 regulated investments of the parent company.

8 Q. Please discuss the equity adjustment relating to the extended outage of
9 FPC's Crystal River 3 (CR 3) nuclear unit.

10 A. In June 1997, the Commission approved a settlement between FPC and all
11 parties that intervened in Docket No. 970261-EI. This docket was opened
12 to review FPC's request to recover replacement fuel and purchased power
13 costs and to investigate the specific actions and circumstances that led
14 to the extended outage of CR 3. The parties to the settlement agreed
15 not to seek or support any increase or reduction in FPC's base rates or
16 the authorized range of its return on equity during the four-year period
17 the agreement was in effect. In exchange for the above consideration,
18 the authority to recover a portion of the replacement fuel costs, and
19 an end to the prudence review, FPC agreed to absorb the remaining costs
20 resulting in an approximate \$109 million after-tax loss. In addition,
21 the settlement provided that for purposes of measuring FPC's future
22 earnings, the Commission will permit the Company to make an adjustment
23 to its earnings surveillance report (ESR) to exclude the costs
24 associated with the outage. This CR 3 equity adjustment is accomplished
25 by increasing common equity by \$109 million and reducing variable cost

1 | debt by the same amount. The settlement agreement expired on June 30,
2 | 2001.

3 | The settlement agreement did not specify when the CR 3 adjustment
4 | would be terminated. However, during the agenda conference when this
5 | matter was discussed, FPC agreed and the Commission Order later
6 | reflected that the Commission would review the reasonableness of
7 | continuing this adjustment after the conclusion of the four-year period
8 | if there was a change in the law ordering industry restructuring or in
9 | FPC's next rate case.

10 | Q. What was FPC's equity ratio prior to the settlement agreement?

11 | A. Based on its May 1997 ESR, FPC's equity ratio was 58.8% on an FPSC basis
12 | prior to the Commission's approval of the settlement.

13 | Q. What was FPC's equity ratio following the approval of the settlement
14 | agreement?

15 | A. Based on its restated June 1997 ESR, FPC's equity ratio was 55.0%
16 | without the CR 3 adjustment and 59.0% with the CR 3 adjustment.

17 | Q. What is FPC's equity ratio as reported in its latest ESR?

18 | A. Based on its October 2001 ESR, FPC's equity ratio is 59.0% without the
19 | CR 3 adjustment and 62.6% with the CR 3 adjustment.

20 | Q. Is the CR 3 equity ratio adjustment still necessary?

21 | A. No, it is not. Exhibit ALM-13 shows FPC's equity ratio as reported in
22 | its monthly ESRs from January 1995 through October 2001. This exhibit
23 | shows that FPC has fully recovered from the adverse impact to earnings
24 | it agreed to as part of the settlement to end the prudence review of the
25 | extended outage of CR 3.

1 As I have discussed earlier, the issue at hand is what is an
2 appropriate capital structure for purposes of providing regulated
3 electric service on a going-forward basis. The facts presented in my
4 testimony demonstrate why FPC's proposed equity ratio of 61.2% is
5 excessive. If the Company's equity ratio were in the low to mid 40's,
6 there might be a reason for continuing this adjustment. However, given
7 the current level of equity maintained at the utility level, the need
8 for this adjustment ended when the Company's equity ratio without the
9 CR 3 adjustment returned to its pre-settlement level. In fact, not only
10 is there no longer a need to make the CR 3 adjustment, because the
11 Company's proposed equity ratio is excessive, the appropriate adjustment
12 now is to reduce FPC's proposed equity ratio to its actual level for
13 ratemaking purposes.

14 Q. Will the discontinuance of the CR 3 equity adjustment violate the
15 settlement agreement approved by the Commission?

16 A. No. The settlement agreement has expired. FPC is engaged in a rate
17 case. As shown on Exhibit ALM-14, the Company has recovered from the
18 adjustment to earnings in 1997. Time has eliminated the need for making
19 the CR 3 equity adjustment.

20 The graph shown on Exhibit ALM-14 is based on information reported
21 by FPC in its monthly ESRs. However, it should be noted that the dip
22 in equity ratio for the period June 1997 through November 1999 is
23 significantly exaggerated by the manner in which the Company reported
24 the Tiger Bay regulatory asset and the accompanying debt on its ESR.
25 The amount of debt for this period was overstated on its ESRs resulting

1 in an understatement of its reported equity ratio. There was no spike
2 in FPC's equity ratio in December 1999 but rather a change in how the
3 Company reported these amounts on its ESR. What is important to take
4 from this graph is that the Company's equity ratio is back to its pre-
5 settlement level and the CR 3 adjustment is no longer warranted.

6 Q. Please summarize your recommendation regarding the appropriate equity
7 ratio the Commission should recognize for FPC for ratemaking purposes.

8 A. Based on the level of equity maintained by other electric utilities in
9 FPC's peer group, the level of equity maintained by its sister utility
10 and the parent company on a consolidated basis, the Company's own
11 recognition of an optimal level of equity capitalization, the Company's
12 actual level of equity as reported in its SEC filings, and the S&P
13 financial targets for a BBB+ rated utility, a 55% equity ratio is
14 appropriate for ratemaking purposes. This level of equity
15 capitalization will balance the interests of ratepayers and shareholders
16 by providing the Company with the financial integrity to attract capital
17 under reasonable terms and preventing a cross subsidization of the
18 parent company's non-regulated operations through the utility's cost of
19 capital.

20 Q. Any further comments?

21 A. Yes. In the event the Commission does not approve my recommendation to
22 adjust FPC's equity ratio for ratemaking purposes, the ROE I recommended
23 earlier in my testimony will overstate FPC's true required return. The
24 ROE I've recommended earlier is based upon an index of companies whose
25 underlying utilities have an average equity ratio of 47.0%. At a 61.2%

1 equity ratio, FPC would have significantly less financial risk than the
2 average company in this index. Therefore, in recognition of this lower
3 financial risk relative to the average risk of the index, I would
4 recommend an ROE of 11.0% for FPC if no equity ratio adjustment is made.
5

6 SUMMARY

7 Q. Please summarize your ROE recommendation.

8 A. As the result of my analysis of objective market data and the
9 application of generally accepted financial models, I have determined
10 a range of return on equity for FPC of 9.75% to 12.5%. Based upon this
11 analysis, I recommend a just and reasonable ROE for FPC of 11.5%.

12 Q. Please summarize your recommendation regarding the appropriate equity
13 ratio for ratemaking purposes.

14 A. Based on the level of equity maintained by other electric utilities in
15 FPC's peer group, the level of equity maintained by the parent company
16 on a consolidated basis, the Company's own recognition of an optimal
17 level of equity capitalization, and the S&P financial target for a BBB+
18 rated utility, a 55% equity ratio is appropriate for ratemaking
19 purposes.

20 Q. Does this conclude your testimony?

21 A. Yes.
22
23
24
25

Discounted Cash Flow Models:

Annual

$$k = D_1 / P_0(1-FC) + g$$

Quarterly

$$k = \frac{d_1(1+k)^{-.75} + d_2(1+k)^{-.50} + d_3(1+k)^{-.25} + d_4}{P_0(1-FC)} + g$$

- k = Cost of equity
 (1) D_1 = Next yearly dividend, calculated by multiplying the last dividend per Value Line by the factor (1+g).
 (1) d_1, d_2, d_3, d_4 = Next four quarterly dividends, calculated by multiplying the last four quarterly dividends per Value Line by the factor (1+g).
 (2) P_0 = Average of the monthly high and low stock prices for the three months ended Nov. 2001 per S&P Stock Guide.
 FC = Flotation costs expressed as a percent of gross proceeds.
 (1) g = Value Line forecast of future earnings growth.
- (1) Dividends and Growth Rates from Value Line editions 1, 5, and 11. (Dec. 7, 2001; Jan. 4, 2002; and Nov. 16, 2001; respectively.)
 (2) Stock Prices from Oct., Nov., Dec. 2001 S&P Stock Guides.

FLORIDA POWER CORPORATION
SUMMARY OF DISCOUNTED CASH FLOW ANALYSIS
FOR ELECTRIC ENERGY COMPANIES

| Company | Quarterly | Average | | Earnings | Quarterly | Without |
|--------------------------|-----------|----------|----------|-------------|-----------|-----------------|
| | Dividend | Price | | Growth Rate | DCF | Flotation Costs |
| Ameren Corp. | \$0.635 | \$39.882 | \$39.882 | 4.00% | 11.26% | 10.90% |
| Cleco Corp. | \$0.218 | \$20.668 | \$20.668 | 8.00% | 13.02% | 12.77% |
| DPL Inc. | \$0.235 | \$23.975 | \$23.975 | 10.50% | 15.31% | 15.07% |
| DTE | \$0.515 | \$42.333 | \$42.333 | 6.50% | 12.20% | 11.91% |
| FPL Group | \$0.560 | \$54.135 | \$54.135 | 4.50% | 9.21% | 8.97% |
| Hawaiian Elec. | \$0.620 | \$38.630 | \$38.630 | 5.00% | 12.42% | 12.05% |
| IDACORP Inc. | \$0.465 | \$37.372 | \$37.372 | 2.50% | 8.03% | 7.75% |
| Great Plains Energy Inc. | \$0.415 | \$25.075 | \$25.075 | 4.50% | 12.11% | 11.72% |
| NSTAR | \$0.515 | \$42.323 | \$42.323 | 6.50% | 12.20% | 11.92% |
| Pinnacle West Capital | \$0.375 | \$41.178 | \$41.178 | 5.50% | 9.83% | 9.61% |
| Southern Co. | \$0.335 | \$24.343 | \$24.343 | 6.50% | 12.96% | 12.64% |
| TECO Energy | \$0.345 | \$26.888 | \$26.888 | 7.00% | 13.01% | 12.71% |
| Market Weighted Average | | | | | 11.74% | 11.48% |

| Company | Stock | Earnings | Annual |
|--------------------------|----------|-------------|--------|
| | Price | Growth Rate | DCF |
| Ameren Corp. | \$39.882 | 4.00% | 10.97% |
| Cleco Corp. | \$20.668 | 8.00% | 12.79% |
| DPL Inc. | \$23.975 | 10.50% | 15.06% |
| DTE | \$42.333 | 6.50% | 11.96% |
| FPL Group | \$54.135 | 4.50% | 9.05% |
| Hawaiian Elec. | \$38.630 | 5.00% | 12.10% |
| IDACORP Inc. | \$37.372 | 2.50% | 7.87% |
| Great Plains Energy Inc. | \$25.075 | 4.50% | 11.78% |
| NSTAR | \$42.323 | 6.50% | 11.96% |
| Pinnacle West Capital | \$41.178 | 5.50% | 9.68% |
| Southern Co. | \$24.343 | 6.50% | 12.67% |
| TECO Energy | \$26.888 | 7.00% | 12.74% |
| Market Weighted Average | | | 11.53% |

Summary of CAPM Results:

$$k = RF + \text{beta} (MR - RF)$$

k = required return

RF = average yield, 30-year Treasury, Dec. 2001 Blue Chip Financial Forecast

beta = Value Screen, Dec. 2001, average for index

MR = DCF result for market

$$\text{Quarterly compounding} = 0.21\%$$

$$\text{beta} = .54$$

$$\text{RF} = 5.4\%$$

$$\text{MR} = 12.71\% + 0.21\% = 12.92\%$$

$$k = 5.4 + .54 (12.92 - 5.4)$$

$$k = 9.46\%$$

$$\text{Flotation Cost Adjustment} = 0.26\%$$

$$k = 9.46 + 0.26$$

$$k = 9.72\%$$

FLORIDA POWER CORPORATION
SUMMARY OF DISCOUNTED CASH FLOW ANALYSIS
FOR ELECTRIC ENERGY COMPANIES

| Company | (1) | | | (2) | |
|-------------------------|--------------------|---------------|-----------|---------------|----------------------------------|
| | Quarterly Dividend | Average Price | I/B/E/S g | Quarterly DCF | Revenue from Electric Operations |
| Allegheny Energy | \$0.430 | \$48.940 | 9.69% | 13.95% | 62.5% |
| ALLETE | \$0.268 | \$23.347 | 8.42% | 13.92% | 44.3% |
| Ameren Corp. | \$0.635 | \$42.097 | 4.50% | 11.41% | 91.4% |
| American Electric Power | \$0.600 | \$47.310 | 5.85% | 11.75% | 100.0% |
| Cinergy Corp. | \$0.450 | \$33.530 | 5.71% | 11.94% | 63.9% |
| Cleco Corp. | \$0.218 | \$22.808 | 10.03% | 14.63% | 75.6% |
| CMS Energy Corp. | \$0.365 | \$28.478 | 8.69% | 14.87% | 29.7% |
| Dominion Resources | \$0.645 | \$63.025 | 9.86% | 14.85% | 48.5% |
| DPL Inc. | \$0.235 | \$27.967 | 9.54% | 13.61% | 75.8% |
| DQE | \$0.420 | \$22.118 | 5.67% | 14.45% | 77.5% |
| DTE | \$0.515 | \$44.574 | 6.60% | 12.01% | 100.0% |
| Duke Energy | \$0.275 | \$42.335 | 11.66% | 14.88% | 37.6% |
| FPL Group | \$0.560 | \$58.643 | 6.75% | 11.14% | 100.0% |
| Hawaiian Elec. | \$0.620 | \$37.358 | 2.50% | 9.92% | 74.3% |
| IDACORP Inc. | \$0.465 | \$37.303 | 6.40% | 12.23% | 83.1% |
| Kansas City Power & Lt. | \$0.415 | \$25.080 | 5.67% | 13.39% | 95.3% |
| MDU Resources | \$0.220 | \$34.252 | 10.82% | 13.97% | 17.7% |
| NiSource Inc. | \$0.290 | \$28.412 | 9.36% | 14.13% | 25.8% |
| NSTAR | \$0.515 | \$41.908 | 6.80% | 12.54% | 100.0% |
| Pinnacle West Capital | \$0.375 | \$47.310 | 7.80% | 11.48% | 95.7% |
| Progress Energy | \$0.530 | \$42.810 | 6.79% | 12.57% | 86.6% |
| Public Serv. Enterprise | \$0.540 | \$47.582 | 6.47% | 11.78% | 57.2% |
| Reliant Energy | \$0.375 | \$38.553 | 7.76% | 12.37% | 14.8% |
| Southern Co. | \$0.335 | \$22.963 | 6.82% | 13.71% | 100.0% |
| TECO Energy | \$0.345 | \$30.798 | 7.99% | 13.25% | 100.0% |
| TXU Corp. | \$0.600 | \$46.895 | 8.21% | 14.34% | 33.9% |
| UIL Holdings | \$0.720 | \$47.498 | 2.33% | 9.08% | 80.0% |
| Vectren Corp. | \$0.255 | \$21.660 | 7.75% | 13.28% | 20.4% |
| Xcel Energy Inc. | \$0.375 | \$28.875 | 6.64% | 12.74% | 49.8% |
| Market Weighted Average | | | | 13.24% | |

(3) Market Weighted Average 12.48%

- (1) FPC Witness Vander Weide Testimony, Schedule 1
(2) C.A. Turner Utility Reports, 2001 Financial Statistics of Public Utilities
(3) Market weighted average of DCF results for companies with 74% or more of revenues generated from electric operations

FLORIDA POWER CORPORATION
SUMMARY OF DISCOUNTED CASH FLOW ANALYSIS
FOR NATURAL GAS DISTRIBUTION COMPANIES

| Company | (1) | | | (2) | |
|-------------------------|--------------------|---------------|-----------|---------------|-------------------------------|
| | Quarterly Dividend | Average Price | I/B/E/S g | Quarterly DCF | % Revenue from Gas Operations |
| AGL Resources | \$0.270 | \$23.223 | 7.16% | 12.65% | 100.0% |
| Atmos Energy | \$0.290 | \$22.987 | 7.57% | 13.54% | 86.4% |
| Energen Corp. | \$0.170 | \$30.793 | 11.00% | 13.71% | 65.9% |
| KeySpan | \$0.445 | \$36.742 | 11.39% | 17.43% | 49.9% |
| Laclede | \$0.335 | \$24.102 | 3.33% | 9.59% | 100.0% |
| New Jersey Resources | \$0.440 | \$43.848 | 6.38% | 11.03% | 64.3% |
| NICOR Inc. | \$0.440 | \$37.925 | 5.79% | 11.01% | 82.5% |
| Northwest Natural Gas | \$0.310 | \$23.955 | 4.55% | 10.47% | 100.0% |
| NUI | \$0.245 | \$22.003 | 10.95% | 16.46% | 43.8% |
| Peoples Energy | \$0.510 | \$39.275 | 5.43% | 11.40% | 78.7% |
| Piedmont Natural Gas | \$0.385 | \$34.570 | 5.33% | 10.32% | 100.0% |
| SEMCO Energy | \$0.210 | \$14.537 | 6.45% | 13.24% | 72.0% |
| South Jersey Industries | \$0.370 | \$30.925 | 5.67% | 11.17% | 83.8% |
| WGL Holdings | \$0.315 | \$27.602 | 4.43% | 9.58% | 100.0% |
| Market Weighted Average | | | | 13.36% | |

(3) Market Weighted Average 11.43%

(1) FPC Witness Vander Weide Testimony, Schedule 3

(2) C.A. Turner Utility Reports, 2001 Financial Statistics of Public Utilities

(3) Market weighted average of DCF results for companies with 60% or more of revenues generated from natural gas operations

ELECTRIC UTILITY INDEX
For 12 months ended Dec. 31, 2000
(\$millions)

| (1) Company Name | (2) Bond Rating | (3) Short- term debt | (3) Long- term debt | (3) Preferred Stock | (3) Common Stock | (4) OBS debt | (5) Equity Ratio | (6) Adj Equity Ratio |
|-----------------------------------|-----------------------|----------------------------|---------------------------|---------------------------|------------------------|--------------------|------------------------|-------------------------------|
| Ameren Corp. | A+ | \$203.3 | \$2,789.5 | \$235.2 | \$3,196.7 | \$48.4 | 49.76% | 49.38% |
| Cleco Corp. | BBB+ | \$95.9 | \$689.8 | \$15.1 | \$464.9 | \$523.5 | 36.73% | 25.98% |
| DPL Inc. | BBB+ | \$0.0 | \$2,308.5 | \$22.9 | \$892.4 | \$0.0 | 27.68% | 27.68% |
| DTE Energy Co. | BBB+ | \$544.0 | \$4,150.0 | \$0.0 | \$4,015.0 | \$57.0 | 46.10% | 45.80% |
| FPL Group Inc. | A | \$1,158.0 | \$4,041.0 | \$226.0 | \$5,593.0 | \$1,213.3 | 50.76% | 45.73% |
| Hawaiian Electric Industries Inc. | BBB | \$23.6 | \$524.0 | \$0.0 | \$839.1 | \$130.4 | 60.51% | 55.31% |
| IDACORP Inc. | A+ | \$120.6 | \$903.9 | \$105.1 | \$820.8 | \$22.4 | 42.08% | 41.61% |
| Kansas City Power & Light Co. | A- | \$55.6 | \$1,285.5 | \$39.1 | \$921.4 | \$106.5 | 40.03% | 38.26% |
| NSTAR | A | \$468.3 | \$1,535.5 | \$43.0 | \$1,376.4 | \$123.9 | 40.21% | 38.80% |
| Pinnacle West Capital Corp. | BBB | \$82.8 | \$2,418.6 | \$0.0 | \$2,382.7 | \$593.3 | 48.78% | 43.50% |
| Southern Co. | A | \$1,680.0 | \$10,156.0 | \$368.0 | \$10,690.0 | \$795.0 | 46.69% | 45.13% |
| TECO Energy Inc. | A | \$1,208.9 | \$1,611.9 | \$200.0 | \$1,559.5 | \$139.3 | 34.05% | 33.04% |
| | | | | | | Simple Average | 43.62% | 40.85% |
| | | | | | | Weighted Average | 45.45% | 43.27% |

- (1) FPC Witness Vander Weide Testimony, Schedule 1
(2) Standard & Poor's Ratings Direct (online: www.ratingsdirect.com)
(3) Company SEC 10K Filings for Year Ended Dec. 31, 2000
(4) Standard & Poor's Balance Sheet Statistics for Electric Utilities
(5) E/R = CE / CE+PS+LTD+STD
(6) Adjusted E/R = CE / CE+PS+LTD+STD+OBS

ELECTRIC UTILITY INDEX (Operating Companies)

For 12 months ended Dec. 31, 2000

(\$millions)

| (1) | (2) | (3) | (3) | (3) | (3) | (4) | (5) | (6) |
|-------------------------------------|-------------|-----------------|----------------|-----------------|--------------|------------------|--------------|-----------------------|
| Company Name | Bond Rating | Short-term debt | Long-term debt | Preferred stock | Common stock | OBS debt | Equity Ratio | Adjusted Equity Ratio |
| Appalachian Power Co. | A- | \$191.5 | \$1,605.8 | \$28.6 | \$1,096.2 | \$3.1 | 37.51% | 37.47% |
| Central Power & Light Co. | A- | \$269.7 | \$1,603.1 | \$5.9 | \$1,366.1 | \$7.5 | 42.10% | 42.00% |
| Columbus Southern Power Co. | A- | \$88.7 | \$899.6 | \$15.0 | \$713.4 | \$7.5 | 41.56% | 41.38% |
| Indiana Michigan Power Co. | A- | \$354.4 | \$1,388.9 | \$73.7 | \$793.1 | \$818.6 | 30.39% | 23.13% |
| Kentucky Power Co. | A- | \$47.6 | \$330.9 | \$0.0 | \$266.7 | \$0.2 | 41.34% | 41.32% |
| Ohio Power Co. | A- | \$32.7 | \$1,195.5 | \$25.5 | \$1,181.8 | \$407.8 | 48.52% | 41.56% |
| Public Service Co. of Oklahoma | A- | \$81.1 | \$545.8 | \$5.3 | \$474.9 | \$0.0 | 42.90% | 42.90% |
| Southwestern Electric Power Co. | A- | \$16.8 | \$755.9 | \$4.7 | \$674.6 | \$0.0 | 46.46% | 46.46% |
| West Texas Utilities Co. | A- | \$58.6 | \$255.8 | \$2.5 | \$262.0 | \$0.0 | 45.26% | 45.26% |
| Cleco Corporate & Power LLC | BBB+ | \$41.4 | \$360.3 | \$0.0 | \$407.1 | \$523.5 | 50.33% | 30.56% |
| Dayton Power & Light Co. | BBB+ | \$0.0 | \$666.5 | \$22.9 | \$1,012.9 | \$0.0 | 59.50% | 59.50% |
| Duquesne Light Co. | BBB+ | \$0.8 | \$1,080.0 | \$222.1 | \$539.6 | \$23.9 | 29.29% | 28.91% |
| Detroit Edison Co. | BBB+ | \$286.0 | \$3,503.0 | \$0.0 | \$3,723.0 | \$57.0 | 49.56% | 49.19% |
| Florida Power & Light Co. | A | \$560.0 | \$2,642.0 | \$226.0 | \$5,032.0 | \$1,213.3 | 59.48% | 52.02% |
| Idaho Power Co. | A+ | \$59.7 | \$839.1 | \$105.1 | \$765.3 | \$22.4 | 43.26% | 42.72% |
| Boston Edison Co. | A | \$132.9 | \$627.8 | \$43.0 | \$834.8 | \$555.6 | 50.95% | 38.05% |
| Arizona Public Service Co. | BBB+ | \$82.1 | \$2,057.2 | \$0.0 | \$2,119.8 | \$456.4 | 49.77% | 44.95% |
| Alabama Power Co. | A | \$281.3 | \$3,773.4 | \$317.5 | \$3,195.8 | \$100.0 | 42.23% | 41.68% |
| Georgia Power Co. | A | \$703.8 | \$3,832.9 | \$14.6 | \$4,249.5 | \$470.9 | 48.29% | 45.83% |
| Gulf Power Co. | A | \$43.0 | \$450.9 | \$4.2 | \$427.3 | \$0.0 | 46.17% | 46.17% |
| Mississippi Power Co. | A | \$56.0 | \$405.5 | \$31.8 | \$404.9 | \$0.5 | 45.08% | 45.05% |
| Anniston Electric & Power Co. | A | \$45.4 | \$187.6 | \$0.0 | \$174.9 | \$3.5 | 42.88% | 42.51% |
| Tampa Electric Co. | A | \$231.2 | \$844.5 | \$0.0 | \$1,447.1 | \$59.5 | 57.36% | 56.04% |
| Florida Power Corporation | BBB+ | \$192.5 | \$1,479.1 | \$33.5 | \$1,965.0 | \$462.4 | 53.54% | 47.55% |
| Carolina Power & Light | BBB+ | \$0.0 | \$3,619.9 | \$59.3 | \$2,852.0 | \$276.8 | 43.67% | 41.89% |
| Monongahela Power Co. | A+ | \$37.0 | \$706.7 | \$74.0 | \$707.9 | \$43.9 | 46.40% | 45.10% |
| Potomac Edison Co. | A+ | \$42.7 | \$410.0 | \$0.0 | \$412.8 | \$0.0 | 47.69% | 47.69% |
| West Penn Power Co. | A+ | \$0.0 | \$738.5 | \$0.0 | \$422.1 | \$31.9 | 36.37% | 35.40% |
| Northern States Power Co. | A- | \$359.2 | \$1,352.8 | \$0.0 | \$1,632.3 | \$0.0 | 48.81% | 48.81% |
| Northern States Power Wisconsin | A | \$15.9 | \$313.0 | \$0.0 | \$390.3 | \$0.0 | 54.27% | 54.27% |
| Public Service Co. of Colorado | A- | \$155.2 | \$1,946.8 | \$0.0 | \$1,923.2 | \$371.8 | 47.78% | 43.74% |
| Southwestern Public Service Co. | A- | \$674.6 | \$326.5 | \$0.0 | \$751.6 | \$30.2 | 42.88% | 42.16% |
| PSI Energy Inc. | A- | \$334.8 | \$1,112.6 | \$42.3 | \$1,133.7 | \$140.0 | 43.21% | 41.03% |
| Union Light Heat & Power Co. | A- | \$29.4 | \$74.5 | \$0.0 | \$147.2 | \$29.6 | 58.62% | 52.44% |
| Cincinnati Gas & Electric Co. | A- | \$427.5 | \$1,206.3 | \$20.5 | \$1,695.8 | \$194.1 | 50.62% | 47.85% |
| Consumers Energy Co. | BBB- | \$403.0 | \$2,736.0 | \$44.0 | \$2,026.0 | \$836.0 | 38.89% | 33.52% |
| Virginia Electric & Power Co. | A | \$714.0 | \$3,937.0 | \$509.0 | \$3,849.0 | \$965.3 | 42.72% | 38.59% |
| Northern Indiana Public Service Co. | BBB | \$407.1 | \$920.7 | \$130.2 | \$1,058.4 | \$35.6 | 42.06% | 41.47% |
| TXU Electric Co. | BBB+ | \$302.0 | \$6,088.0 | \$21.0 | \$6,879.0 | \$311.0 | 51.76% | 50.58% |
| | | | | | | Simple Average | 46.14% | 43.51% |
| | | | | | | Weighted Average | 46.96% | 44.21% |

(1) C.A. Turner Utility Reports, 2001 Financial Statistics of Public Utilities

(2) Standard & Poor's Ratings Direct (online: www.ratingsdirect.com)

(3) Company SEC 10K Filings for Year Ended Dec. 31, 2000

(4) Standard & Poor's Balance Sheet Statistics for Electric Utilities

E/R = CE / CE+PS+LTD+STD

(6) Adjusted E/R = CE / CE+PS+LTD+STD+OBS

Utilities

Quartiles - Equity Ratio

| | |
|---------------------------------|--------|
| Top: | |
| Dayton Power & Light Co. | 59.50% |
| Florida Power & Light Co. | 59.48% |
| Union Light Heat & Power Co. | 58.62% |
| Tampa Electric Co. | 57.36% |
| Northern States Power Wisconsin | 54.27% |
| Florida Power Corporation | 53.54% |
| TXU Electric Co. | 51.76% |
| Boston Edison Co. | 50.95% |
| Cincinnati Gas & Electric Co. | 50.62% |
| Cleco Corporate & Power LLC | 50.33% |

| | |
|---------------------------------|--------|
| Middle-top: | |
| Arizona Public Service Co. | 49.77% |
| Detroit Edison Co. | 49.56% |
| Northern States Power Co. | 48.81% |
| Ohio Power Co. | 48.52% |
| Georgia Power Co. | 48.29% |
| Public Service Co. of Colorado | 47.78% |
| Potomac Edison Co. | 47.69% |
| Southwestern Electric Power Co. | 46.46% |
| Monongahela Power Co. | 46.40% |
| Gulf Power Co. | 46.17% |

| | |
|---------------------------------|--------|
| Middle-bottom: | |
| West Texas Utilities Co. | 45.26% |
| Mississippi Power Co. | 45.08% |
| Carolina Power & Light | 43.67% |
| Idaho Power Co. | 43.26% |
| PSI Energy Inc. | 43.21% |
| Public Service Co. of Oklahoma | 42.90% |
| Southwestern Public Service Co. | 42.88% |
| Savannah Electric & Power Co. | 42.88% |
| Virginia Electric & Power Co. | 42.72% |
| Alabama Power Co. | 42.23% |

| | |
|-------------------------------------|--------|
| Bottom: | |
| Central Power & Light Co. | 42.10% |
| Northern Indiana Public Service Co. | 42.06% |
| Columbus Southern Power Co. | 41.56% |
| Kentucky Power Co. | 41.34% |
| Consumers Energy Co. | 38.89% |
| Appalachian Power Co. | 37.51% |
| West Penn Power Co. | 36.37% |
| Indiana Michigan Power Co. | 30.39% |
| Duquesne Light Co. | 29.29% |

Quartiles - Adjusted Equity Ratio

| | |
|---------------------------------|--------|
| Top: | |
| Dayton Power & Light Co. | 59.50% |
| Tampa Electric Co. | 56.04% |
| Northern States Power Wisconsin | 54.27% |
| Union Light Heat & Power Co. | 52.44% |
| Florida Power & Light Co. | 52.02% |
| TXU Electric Co. | 50.58% |
| Detroit Edison Co. | 49.19% |
| Northern States Power Co. | 48.81% |
| Cincinnati Gas & Electric Co. | 47.85% |
| Potomac Edison Co. | 47.69% |

| | |
|---------------------------------|--------|
| Middle-top: | |
| Florida Power Corporation | 47.55% |
| Southwestern Electric Power Co. | 46.46% |
| Gulf Power Co. | 46.17% |
| Georgia Power Co. | 45.83% |
| West Texas Utilities Co. | 45.26% |
| Monongahela Power Co. | 45.10% |
| Mississippi Power Co. | 45.05% |
| Arizona Public Service Co. | 44.95% |
| Public Service Co. of Colorado | 43.74% |
| Public Service Co. of Oklahoma | 42.90% |

| | |
|-------------------------------------|--------|
| Middle-bottom: | |
| Idaho Power Co. | 42.72% |
| Savannah Electric & Power Co. | 42.51% |
| Southwestern Public Service Co. | 42.16% |
| Central Power & Light Co. | 42.00% |
| Carolina Power & Light | 41.89% |
| Alabama Power Co. | 41.68% |
| Ohio Power Co. | 41.56% |
| Northern Indiana Public Service Co. | 41.47% |
| Columbus Southern Power Co. | 41.38% |
| Kentucky Power Co. | 41.32% |

| | |
|-------------------------------|--------|
| Bottom: | |
| PSI Energy Inc. | 41.03% |
| Virginia Electric & Power Co. | 38.59% |
| Boston Edison Co. | 38.05% |
| Appalachian Power Co. | 37.47% |
| West Penn Power Co. | 35.40% |
| Consumers Energy Co. | 33.52% |
| Cleco Corporate & Power LLC | 30.56% |
| Duquesne Light Co. | 28.91% |
| Indiana Michigan Power Co. | 23.13% |

Staff's Fifth Set of Interrogatories

Question # 160

Common Equity Ratios

(\$000's)

| FPC | Ratios | | | | | |
|----------------------|-------------------|---------|-------------------|---------|--------------------|---------|
| | December 31, 1999 | | December 31, 2000 | | September 30, 2001 | |
| | Amount | % age | Amount | % age | Amount | % age |
| Short-Term Debt | 153,100 | 4.22% | 192,500 | 5.25% | 0 | 0.00% |
| Long-Term Debt | 1,555,600 | 42.89% | 1,479,100 | 40.30% | 1,601,664 | 43.81% |
| Preferred Stock | 33,500 | 0.92% | 33,500 | 0.91% | 33,497 | 0.92% |
| Common Equity | 1,885,500 | 51.97% | 1,965,000 | 53.54% | 2,021,187 | 55.28% |
| Total Capitalization | 3,627,200 | 100.00% | 3,670,100 | 100.00% | 3,656,348 | 100.00% |

| Florida Progress & Eliminations | Ratios | | | | | |
|------------------------------------|-------------------|---------|-------------------|---------|--------------------|---------|
| | December 31, 1999 | | December 31, 2000 | | September 30, 2001 | |
| | Amount | % age | Amount | % age | Amount | % age |
| Short-Term Debt | 0 | 0.00% | 274,000 | 21.38% | 313,936 | 24.61% |
| Long-Term Debt | 1,061,700 | 89.56% | 987,800 | 76.86% | 836,447 | 65.56% |
| Preferred Stock | 0 | 0.00% | 0 | 0.00% | 0 | 0.00% |
| Common Equity | 123,700 | 10.44% | 22,600 | 1.76% | 125,385 | 9.83% |
| Total Capitalization | 1,185,400 | 100.00% | 1,285,200 | 100.00% | 1,275,768 | 100.00% |

| Total Florida Progress | Ratios | | | | | |
|------------------------|-------------------|---------|-------------------|---------|--------------------|---------|
| | December 31, 1999 | | December 31, 2000 | | September 30, 2001 | |
| | Amount | % age | Amount | % age | Amount | % age |
| Short-Term Debt | 153,100 | 3.18% | 467,300 | 9.43% | 313,936 | 5.37% |
| Long-Term Debt | 2,617,300 | 54.38% | 2,466,900 | 49.78% | 2,438,111 | 49.43% |
| Preferred Stock | 33,500 | 0.70% | 33,500 | 0.68% | 33,497 | 0.68% |
| Common Equity | 2,008,700 | 41.74% | 1,987,600 | 40.11% | 2,146,572 | 43.52% |
| Total Capitalization | 4,812,600 | 100.00% | 4,955,300 | 100.00% | 4,932,116 | 100.00% |

Staff's Fifth Set of Interrogatories

Question # 160

Common Equity Ratios

(\$000's)

| CP&L | Ratios | | | |
|----------------------|-------------------|---------|--------------------|---------|
| | December 31, 2000 | | September 30, 2001 | |
| | Amount | % age | Amount | % age |
| Short-Term Debt | 0 | 0.00% | 0 | 0.00% |
| Long-Term Debt | 3,619,984 | 55.42% | 3,730,124 | 53.69% |
| Preferred Stock | 59,334 | 0.91% | 59,334 | 0.85% |
| Common Equity | 2,852,038 | 43.67% | 3,158,452 | 45.46% |
| Total Capitalization | 6,531,356 | 100.00% | 6,947,910 | 100.00% |

| Progress Energy, Inc. Holdings & Eliminations | Ratios | | | |
|--|-------------------|---------|--------------------|---------|
| | December 31, 2000 | | September 30, 2001 | |
| | Amount | % age | Amount | % age |
| Short-Term Debt | 3,492,623 | 85.66% | 350,109 | 7.91% |
| Long-term Debt | 0 | 0.00% | 3,178,277 | 71.80% |
| Preferred Stock | 0 | 0.00% | 0 | 0.00% |
| Common Equity | 584,563 | 14.34% | 898,073 | 20.29% |
| Total Capitalization | 4,077,186 | 100.00% | 4,426,459 | 100.00% |

| Total Progress Energy, Inc. | Ratios | | | |
|-----------------------------|-------------------|---------|--------------------|---------|
| | December 31, 2000 | | September 31, 2001 | |
| | Amount | % age | Amount | % age |
| Short-Term Debt | 3,972,674 | 25.53% | 66,045 | 4.07% |
| Long-Term Debt | 6,074,136 | 39.03% | 9,346,512 | 57.32% |
| Preferred Stock | 92,831 | .060% | 92,831 | 0.57% |
| Common Equity | 5,424,201 | 34.58% | 6,203,097 | 38.04% |
| Total Capitalization | 15,563,842 | 100.00% | 16,306,485 | 100.00% |

S&P Risk-Adjusted Financial Targets

| | A- | BBB+ | BBB |
|------------------------------------|----|------|-----|
| (1) Total Debt / Total Capital (%) | 46 | 49 | 51 |
| Implied Equity Ratio (%) | 54 | 51 | 49 |

Source: S&P Rating Evaluation for CP&L Energy, Inc., Sept. 13, 2000 (Staff POD 12, Bate Stamp OPC 5 1524)

| | A | BBB |
|------------------------------------|-------|-------|
| (2) Total Debt / Total Capital (%) | 46-50 | 53-57 |
| Implied Equity Ratio (%) | 50-54 | 43-47 |

Source: S&P Corporate Rating Criteria 2001, p. 58 (S&P Ratings Direct, www.ratingsdirect.com)

- (1) Business position 5
- (2) Above average business position

Incremental Revenue Requirement

| | | |
|-----|---------------------------------|---------------------|
| (1) | pre-tax COC @ 61.1% E/R | 12.85% |
| (1) | pre-tax COC @ 55.0% E/R | <u>12.21%</u> |
| | difference | 0.64% |
| (2) | assumed rate base | \$3,665,498,000 |
| | difference | x <u>.0064</u> |
| | incremental revenue requirement | \$23,459,187 |

- (1) ALM-11
- (2) total capital from MFR D-1

FPC - with 11.5% ROE

| <u>Class of Capital</u> | (\$000) FPSC <u>Adj'd Retail</u> | <u>Ratio</u> | <u>Cost Rate</u> | After-tax | Pre-tax |
|-------------------------|-------------------------------------|---------------|------------------|------------------------------|------------------------------|
| | | | | Weighted <u>Cost Rate</u> | Weighted <u>Cost Rate</u> |
| Common Equity | \$1,966,206 | 53.64% | 11.50% | 6.17% | 10.05% |
| Preferred Stock | \$30,245 | 0.83% | 4.51% | 0.04% | 0.06% |
| Long Term Debt | | | | | |
| Fixed Rate Debt | \$1,210,276 | 33.02% | 7.14% | 2.36% | 2.36% |
| Variable Rate Debt | \$6,220 | 0.17% | 4.92% | 0.01% | 0.01% |
| Short Term Debt | \$2,268 | 0.06% | 4.92% | 0.00% | 0.00% |
| Customer Deposits | | | | | |
| Active | \$112,388 | 3.07% | 6.13% | 0.19% | 0.19% |
| Inactive | \$387 | 0.01% | 0.00% | 0.00% | 0.00% |
| Investment Tax Credit | | | | | |
| Post '70 - Equity | \$28,053 | 0.77% | 11.39% | 0.09% | 0.14% |
| Post '70 - Debt | \$17,092 | 0.47% | 7.13% | 0.03% | 0.03% |
| Deferred Income Taxes | \$321,038 | 8.76% | 0.00% | 0.00% | 0.00% |
| FAS 109 Liability - Net | <u>(\$28,675)</u> | <u>-0.78%</u> | 0.00% | <u>-0.00%</u> | <u>-0.00%</u> |
| Total Capital Structure | \$3,665,498 | 100.00% | | 8.88% | 12.85% |

FPC - with 55% Equity Ratio & 11.5% ROE

| <u>Class of Capital</u> | (\$000) FPSC <u>Adj'd Retail</u> | <u>Ratio</u> | <u>Cost Rate</u> | After-tax | Pre-tax |
|-------------------------|-------------------------------------|---------------|------------------|------------------------------|------------------------------|
| | | | | Weighted <u>Cost Rate</u> | Weighted <u>Cost Rate</u> |
| Common Equity | \$1,768,456 | 48.25% | 11.50% | 5.55% | 9.04% |
| Preferred Stock | \$30,245 | 0.83% | 4.51% | 0.04% | 0.06% |
| Long Term Debt | | | | | |
| Fixed Rate Debt | \$1,407,017 | 38.39% | 7.14% | 2.74% | 2.74% |
| Variable Rate Debt | \$7,229 | 0.20% | 4.92% | 0.01% | 0.01% |
| Short Term Debt | \$2,268 | 0.06% | 4.92% | 0.00% | 0.00% |
| Customer Deposits | | | | | |
| Active | \$112,388 | 3.07% | 6.13% | 0.19% | 0.19% |
| Inactive | \$387 | 0.01% | 0.00% | 0.00% | 0.00% |
| Investment Tax Credit | | | | | |
| Post '70 - Equity | \$25,256 | 0.69% | 11.38% | 0.08% | 0.13% |
| Post '70 - Debt | \$19,889 | 0.54% | 7.13% | 0.04% | 0.04% |
| Deferred Income Taxes | \$321,038 | 8.76% | 0.00% | 0.00% | 0.00% |
| FAS 109 Liability - Net | <u>(\$28,675)</u> | <u>-0.78%</u> | 0.00% | <u>-0.00%</u> | <u>-0.00%</u> |
| Total Capital Structure | \$3,665,498 | 100.00% | | 8.64% | 12.21% |

GULF - with 11.5% ROE

| <u>Class of Capital</u> | (\$000) Jurisdictional <u>Capital Structure</u> | <u>Ratio</u> | <u>Cost Rate</u> | After-tax | Pre-tax |
|------------------------------------|---|--------------|------------------|------------------------------|------------------------------|
| | | | | Weighted <u>Cost Rate</u> | Weighted <u>Cost Rate</u> |
| Long Term Debt | \$437,913 | 36.54% | 7.08% | 2.59% | 2.59% |
| Short Term Debt | \$17,801 | 1.49% | 6.02% | 0.09% | 0.09% |
| Preferred Stock | \$99,565 | 8.31% | 5.01% | 0.42% | 0.42% |
| Common Equity | \$491,919 | 41.04% | 11.50% | 4.72% | 7.69% |
| Customer Deposits | \$13,249 | 1.11% | 5.98% | 0.07% | 0.07% |
| Deferred Taxes | \$121,470 | 10.14% | 0.00% | 0.00% | 0.00% |
| Investment Credits - Zero Cost | \$0 | 0.00% | 0.00% | 0.00% | 0.00% |
| Investment Credits - Weighted Cost | <u>\$16,584</u> | <u>1.38%</u> | 8.99% | <u>0.12%</u> | <u>0.17%</u> |
| Total Capital | \$1,198,502 | 100% | | 8.00% | 11.02% |

FR D-1 FPC and Gulf, respectively

Nine months ended Sept. 30, 2001

| | <u>Southern Company</u> | <u>Progress Energy</u> |
|---------------------------------|-------------------------|------------------------|
| (1) S&P Rating | A | BBB+ |
| (2) Total Assets (\$millions) | \$29,798.7 | \$20,673.0 |
| (2) Total Revenues (\$millions) | \$ 7,995.8 | \$ 6,554.3 |
| (3) Equity Ratio | 38.1% | 38.0% |
| (5) # of Electric Utilities | 5 | 2 |
| (6) Total Capacity (kilowatts) | 32,806,926 | 21,623,000 |
| | year ended 12/31/00 | |

| | <u>Gulf Power Company</u> | <u>Florida Power Corporation</u> |
|--------------------------------|---------------------------|----------------------------------|
| (1) S&P Rating | A | BBB+ |
| (2) Total Assets (\$millions) | \$1,526.5 | \$5,044.1 |
| (2) Total Revenue (\$millions) | \$ 572.1 | \$2,500.3 |
| (7) Equity Ratio (Ratecase) | 47.0% | 61.2% |
| (3) Equity Ratio (actual) | 46.2% | 55.3% |
| (4) Adjusted Equity Ratio | 46.2% | 49.1% |
| (6) Total Capacity (kilowatts) | 2,188,150 | 9,312,000 |
| | year ended 12/31/00 | |

(1) Standard & Poor's Ratings Direct (Online: www.ratingsdirect.com)

(2) Company SEC 10Q Filings for quarter ended Sept. 30, 2001

(3) E/R = CE / CE+PS+LTD+STD

(4) Adjusted E/R = CE / CE+PS+LTD+STD+OBS

(5) C.A. Turner Utility Reports, 2001 Financial Statistics of Public Utilities

(6) Company SEC 10K Filings for year ended Dec. 31, 2000

(7) Equity ratio proposed for ratemaking (MFR D-1)

(In Millions)

| | Common Equity | Preferred Stock | Long-Term Debt (Fixed) | Long-Term Debt (Variable) | Short-Term Debt | CR3 Adj. | Adjusted Equity Ratio | Actual Equity Ratio |
|----------|---------------|-----------------|------------------------|---------------------------|-----------------|----------|-----------------------|---------------------|
| Jan-1995 | 1,399.4 | 128.3 | 1,017.5 | 165.1 | 53.1 | 0.0 | 50.6% | 50.6% |
| Feb-1995 | 1,411.5 | 128.1 | 1,015.2 | 165.2 | 45.2 | 0.0 | 51.0% | 51.0% |
| Mar-1995 | 1,420.8 | 127.8 | 1,012.6 | 163.9 | 41.6 | 0.0 | 51.4% | 51.4% |
| Apr-1995 | 1,435.7 | 127.7 | 1,010.9 | 163.8 | 34.3 | 0.0 | 51.8% | 51.8% |
| May-1995 | 1,448.3 | 127.4 | 1,007.2 | 163.5 | 29.2 | 0.0 | 52.2% | 52.2% |
| Jun-1995 | 1,455.0 | 127.4 | 1,005.4 | 163.1 | 28.1 | 0.0 | 52.4% | 52.4% |
| Jul-1995 | 1,463.5 | 127.2 | 1,002.3 | 162.3 | 25.0 | 0.0 | 52.6% | 52.6% |
| Aug-1995 | 1,473.2 | 127.0 | 999.6 | 158.3 | 20.4 | 0.0 | 53.0% | 53.0% |
| Sep-1995 | 1,486.2 | 127.4 | 1,002.8 | 152.9 | 25.2 | 0.0 | 53.2% | 53.2% |
| Oct-1995 | 1,493.6 | 127.1 | 1,000.3 | 144.8 | 25.6 | 0.0 | 53.5% | 53.5% |
| Nov-1995 | 1,501.2 | 126.5 | 997.2 | 138.6 | 25.6 | 0.0 | 53.8% | 53.8% |
| Dec-1995 | 1,504.8 | 125.8 | 992.7 | 131.7 | 23.7 | 0.0 | 54.2% | 54.2% |
| Jan-1996 | 1,513.0 | 125.5 | 991.4 | 125.6 | 17.6 | 0.0 | 54.6% | 54.6% |
| Feb-1996 | 1,515.6 | 124.9 | 986.7 | 116.9 | 18.0 | 0.0 | 54.9% | 54.9% |
| Mar-1996 | 1,525.0 | 125.0 | 987.8 | 107.7 | 18.9 | 0.0 | 55.2% | 55.2% |
| Apr-1996 | 1,531.3 | 124.6 | 985.5 | 97.1 | 21.6 | 0.0 | 55.5% | 55.5% |
| May-1996 | 1,534.1 | 123.9 | 981.7 | 85.9 | 24.1 | 0.0 | 55.8% | 55.8% |
| Jun-1996 | 1,564.0 | 120.0 | 996.4 | 81.4 | 0.8 | 0.0 | 56.6% | 56.6% |
| Jul-1996 | 1,568.8 | 113.9 | 993.0 | 77.7 | 0.0 | 0.0 | 57.0% | 57.0% |
| Aug-1996 | 1,582.6 | 108.4 | 992.5 | 77.1 | 0.0 | 0.0 | 57.3% | 57.3% |
| Sep-1996 | 1,589.1 | 102.6 | 988.8 | 75.2 | 0.0 | 0.0 | 57.7% | 57.7% |
| Oct-1996 | 1,592.9 | 96.5 | 981.9 | 72.2 | 0.0 | 0.0 | 58.1% | 58.1% |
| Nov-1996 | 1,599.6 | 88.9 | 977.6 | 69.7 | 0.0 | 0.0 | 58.5% | 58.5% |
| Dec-1996 | 1,608.6 | 81.9 | 977.7 | 71.7 | 4.3 | 0.0 | 58.6% | 58.6% |
| Jan-1997 | 1,611.2 | 74.5 | 970.9 | 77.2 | 10.8 | 0.0 | 58.7% | 58.7% |
| Feb-1997 | 1,612.8 | 67.1 | 963.8 | 85.1 | 11.3 | 0.0 | 58.9% | 58.9% |
| Mar-1997 | 1,604.5 | 59.8 | 957.5 | 95.6 | 17.6 | 0.0 | 58.7% | 58.7% |
| Apr-1997 | 1,604.9 | 52.5 | 950.8 | 106.4 | 18.7 | 0.0 | 58.7% | 58.7% |
| May-1997 | 1,604.7 | 45.2 | 943.4 | 117.3 | 19.4 | 0.0 | 58.8% | 58.8% |
| Jun-1997 | 1,615.0 | 38.2 | 942.5 | 118.6 | 23.8 | 109.6 | 59.0% | 55.0% |
| Jul-1997 | 1,617.4 | 36.4 | 966.7 | 118.1 | 29.3 | 109.6 | 58.4% | 54.5% |
| Aug-1997 | 1,625.2 | 34.8 | 993.8 | 118.2 | 28.8 | 109.6 | 58.0% | 54.1% |
| Sep-1997 | 1,628.1 | 33.1 | 1,023.4 | 120.9 | 27.6 | 109.6 | 57.5% | 53.6% |
| Oct-1997 | 1,624.6 | 31.4 | 1,054.6 | 126.5 | 27.3 | 109.6 | 56.7% | 52.9% |
| Nov-1997 | 1,633.5 | 29.6 | 1,080.4 | 130.0 | 27.2 | 109.6 | 56.3% | 52.5% |
| Dec-1997 | 1,631.6 | 29.8 | 1,116.1 | 129.2 | 33.6 | 109.6 | 55.5% | 51.8% |
| Jan-1998 | 1,634.9 | 29.7 | 1,140.5 | 121.3 | 50.9 | 109.6 | 54.9% | 51.2% |
| Feb-1998 | 1,633.9 | 29.6 | 1,178.3 | 113.8 | 58.9 | 109.6 | 54.2% | 50.6% |
| Mar-1998 | 1,637.6 | 29.7 | 1,211.1 | 106.9 | 67.1 | 109.6 | 53.7% | 50.1% |
| Apr-1998 | 1,636.1 | 29.6 | 1,237.7 | 99.7 | 79.0 | 109.6 | 53.1% | 49.5% |
| May-1998 | 1,636.6 | 29.5 | 1,264.9 | 92.5 | 91.1 | 109.6 | 52.5% | 49.0% |

(In Millions)

| | Common Equity | Preferred Stock | Long-Term Debt (Fixed) | Long-Term Debt (Variable) | Short-Term Debt | CR3 Adj. | Adjusted Equity Ratio | Actual Equity Ratio |
|----------|---------------|-----------------|------------------------|---------------------------|-----------------|----------|-----------------------|---------------------|
| Jun-1998 | 1,626.9 | 29.3 | 1,286.5 | 85.7 | 98.8 | 109.6 | 52.0% | 48.5% |
| Jul-1998 | 1,625.2 | 29.2 | 1,311.4 | 83.0 | 105.3 | 109.6 | 51.5% | 48.1% |
| Aug-1998 | 1,623.2 | 29.1 | 1,303.8 | 77.5 | 111.3 | 109.6 | 51.6% | 48.1% |
| Sep-1998 | 1,621.0 | 29.0 | 1,299.8 | 72.3 | 115.0 | 109.6 | 51.7% | 48.2% |
| Oct-1998 | 1,619.4 | 28.9 | 1,294.1 | 65.5 | 117.4 | 109.6 | 51.8% | 48.3% |
| Nov-1998 | 1,622.0 | 28.9 | 1,285.4 | 59.6 | 117.3 | 109.6 | 52.1% | 48.6% |
| Dec-1998 | 1,620.4 | 29.0 | 1,283.3 | 56.9 | 116.2 | 109.6 | 52.2% | 48.6% |
| Jan-1999 | 1,637.4 | 28.8 | 1,268.8 | 56.3 | 99.7 | 109.6 | 53.0% | 49.4% |
| Feb-1999 | 1,640.2 | 28.8 | 1,258.7 | 56.2 | 90.9 | 109.6 | 53.3% | 49.8% |
| Mar-1999 | 1,651.4 | 28.9 | 1,247.8 | 56.0 | 82.2 | 109.6 | 53.9% | 50.3% |
| Apr-1999 | 1,669.7 | 29.1 | 1,250.2 | 55.8 | 65.7 | 109.6 | 54.4% | 50.8% |
| May-1999 | 1,672.9 | 29.0 | 1,240.5 | 55.5 | 57.0 | 109.6 | 54.8% | 51.2% |
| Jun-1999 | 1,685.4 | 29.2 | 1,239.9 | 55.2 | 45.3 | 109.6 | 55.2% | 51.6% |
| Jul-1999 | 1,695.8 | 29.2 | 1,233.7 | 55.2 | 49.3 | 109.6 | 55.4% | 51.8% |
| Aug-1999 | 1,715.2 | 29.4 | 1,233.7 | 54.6 | 32.3 | 109.6 | 56.0% | 52.4% |
| Sep-1999 | 1,725.9 | 29.5 | 1,230.3 | 55.1 | 32.5 | 109.6 | 56.2% | 52.6% |
| Oct-1999 | 1,736.3 | 29.5 | 1,224.6 | 57.2 | 32.5 | 109.6 | 56.4% | 52.8% |
| Nov-1999 | 1,752.0 | 29.6 | 1,222.8 | 56.7 | 32.7 | 109.6 | 56.6% | 53.1% |
| Dec-1999 | 1,761.7 | 29.8 | 914.2 | 58.3 | 16.4 | 109.6 | 63.4% | 59.4% |
| Jan-2000 | 1,775.1 | 29.9 | 913.0 | 58.6 | 25.5 | 109.6 | 63.3% | 59.4% |
| Feb-2000 | 1,782.7 | 30.1 | 914.1 | 59.5 | 34.2 | 109.6 | 63.2% | 59.3% |
| Mar-2000 | 1,775.6 | 30.0 | 940.2 | 59.9 | 41.4 | 109.6 | 62.4% | 58.5% |
| Apr-2000 | 1,787.7 | 30.1 | 939.7 | 60.7 | 48.8 | 109.6 | 62.4% | 58.5% |
| May-2000 | 1,817.3 | 30.5 | 947.8 | 61.6 | 55.4 | 109.6 | 62.4% | 58.6% |
| Jun-2000 | 1,819.1 | 30.4 | 942.5 | 62.2 | 59.6 | 109.6 | 62.4% | 58.7% |
| Jul-2000 | 1,831.1 | 30.3 | 927.2 | 61.9 | 67.7 | 109.6 | 62.7% | 59.0% |
| Aug-2000 | 1,834.1 | 30.2 | 916.5 | 63.9 | 76.8 | 109.6 | 62.8% | 59.0% |
| Sep-2000 | 1,835.1 | 30.1 | 909.2 | 67.3 | 86.9 | 109.6 | 62.7% | 58.9% |
| Oct-2000 | 1,840.4 | 30.1 | 903.9 | 71.7 | 97.9 | 109.6 | 62.5% | 58.8% |
| Nov-2000 | 1,829.5 | 30.1 | 897.5 | 81.1 | 105.9 | 109.6 | 62.1% | 58.4% |
| Dec-2000 | 1,841.3 | 30.3 | 899.0 | 82.3 | 108.6 | 109.6 | 62.2% | 58.5% |
| Jan-2001 | 1,851.3 | 30.1 | 892.8 | 74.1 | 107.6 | 109.6 | 62.6% | 58.9% |
| Feb-2001 | 1,844.8 | 30.1 | 892.6 | 81.1 | 107.4 | 109.6 | 62.4% | 58.7% |
| Mar-2001 | 1,845.3 | 30.0 | 896.5 | 81.1 | 107.7 | 109.6 | 62.3% | 58.6% |
| Apr-2001 | 1,854.8 | 30.1 | 902.5 | 81.2 | 102.6 | 109.6 | 62.4% | 58.7% |
| May-2001 | 1,856.3 | 30.0 | 906.0 | 81.1 | 102.9 | 109.6 | 62.4% | 58.7% |
| Jun-2001 | 1,877.4 | 30.1 | 911.3 | 81.2 | 106.2 | 109.6 | 62.5% | 58.8% |
| Jul-2001 | 1,884.7 | 30.1 | 930.3 | 80.6 | 94.6 | 109.6 | 62.4% | 58.8% |
| Aug-2001 | 1,890.8 | 30.1 | 955.8 | 72.5 | 82.1 | 109.6 | 62.4% | 58.8% |
| Sep-2001 | 1,899.3 | 30.2 | 984.5 | 65.1 | 62.8 | 109.6 | 62.4% | 58.8% |
| Oct-2001 | 1,903.3 | 30.2 | 1,007.1 | 55.3 | 46.4 | 109.6 | 62.6% | 59.0% |

